See Our New **ROBOT BUILDER** Section Page 4

# ELECTRONIC GOLDMINE

Catalog of High Tech Electronics and Components

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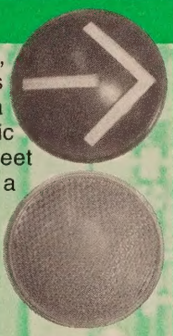
## Giant Glass Traffic Light Lenses



Great for special lighting effects, color organs, strobes, concert lighting etc. These are real tempered glass lenses from traffic lights. Size almost 12" Dia. with a slight convex shape. Made by Kopp glass, these traffic signal lenses have uniform and lasting color to meet specific spectral transmission requirements. We have a limited quantity of the following colors.

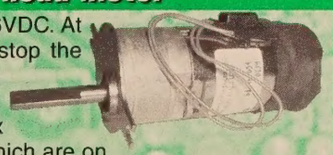
| | | |
|---|---|---|
| **Teal** (Greenish Blue) | **G13589** | **$10.95** |
| **Red** | **G13590** | **$11.95** |
| **Yellow Arrow** | **G13591** | **$14.95** |
| **Teal** (Greenish Blue) **Arrow** | **G13592** | **$14.95** |

## Small Mabuchi Motor RF-500TB-14415 1.5VDC up to 9VDC

Very smooth running small motor made for CD players, DVD players and VCR's is perfect for making small robots. At 3VDC its speed is 1800 RPM (no load) @ .022amp. At maximum efficiency its speed at 3VDC is 1430 and the current is .085. Torque is 8.4 g-cm. Stall current is .33amp at Torque of 41g-cm. Size is 1.28" Dia. x .98" L. Shaft is .38" L x .08" Dia. This is one of the best motors around for use in robotics or solar applications! Brand new with solder eyelets.

**G13604 $2.00 ea. • 2 / $3.00 • 10 / $12.00 • 100 / $100.00**

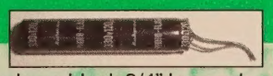
## Buehler High Torque Gearhead Motor



Rated for 24VDC but works great at 6VDC. At 12VDC its just about impossible to stop the shaft and the rpm is about 60. Features 1.2' Long x 1/4" Dia. "D" shaft. Body including gearhead is about 3.32" L x 1.4" Dia. (excluding mounting ears which are on 2.3" centers). Has flexible wire with 2 position female connector. To reverse direction–just reverse polarity. New Part# 127K750.

**G13597 $14.95 ea.**

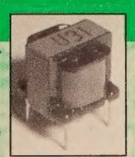
## Super Compact Photoflash Capacitor 120µf 330VDC



Made by Rubycon this photoflash capacitor is only 2.1" L x .44" Dia. Features one red and one black 3/4" long color coded insulated leads. These are new but were cut off from photo strobe boards before final assembly. Blowout price!

**G13596 $1.49 ea. • 10 / $12.00 • 100 / $100.00**

## Tiny Inverter Transformer



Designed for tiny strobelights this small inverter transformer converts 3VDC into 200VAC when used with a simple 2 transistor circuit. Size only .4" square x .35" H. Has 4 pins. Complete with schematic of a simple strobe using this transformer.

**G13599 $3.95 ea. • 10 / $30.00 • 100 / $250.00**

## Light Spider Robot Kit

Our latest addition to our robot family is the Light Spider Robot Kit. This amazing new robot uses its electronic brain to follow or find a light source (such as a standard flashlight). Using its drive motors, the Light Spider will scoot across any smooth hard surface (such as a linoleum floor or a wooden table top) looking for light. Unlike "normal" spiders that hide in the dark, our Light Spider robot actively searches for light! While searching, a LED array on the front of the robot lights up and blinks. Those that have had the opportunity to control the Light Spider have been amazed at how well it responds and how much fun it is to play with. The Light Spider is an easy to build kit that operates from one 9V battery (not included) and uses a transistor brain to control its 2 motors. The PC board and motors can be customized by painting them before assembly. Size of PC board is approximately 3.75" x 2.5". This kit comes complete with all parts, PC board and instructions. Skill Level 2. Go to **http://www.goldmine-elec.com/video.htm** for a color video of this kit in action! Please note: this kit requires soldering for assembly.

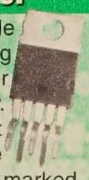
**C6886 $11.49 ea.**

## Blinding Output Giant 10mm LED Color Assortment

We have taken 1 each of our very popular giant 10mm clear lens LEDs and packaged them in this special combination. You get almost $12 worth of LEDs for this special price. Check the G13501, G13505 and G13587 for full specs on the individual LEDs. Remember you get 1 red, 1 white, and 1 blue 10mm giant LEDs.

**G13136 $8.95**

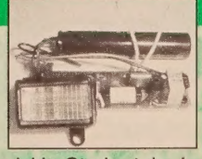
## TDA2050 32Watt HiFi Audio Power Amplifier



High output (50W music power) amplifier requires only a couple of external resistors and capacitors to make a great sounding class AB audio amplifier. It can deliver 50 watts music power into a 4 ohm load. Requires ± 25VDC power or 40V single supply. Brand new by SGS Thomson. Case is standard 5 pin Pentawatt (about the size of a T0220 plastic power transistor). Check the internet for full specs on this incredible amplifier IC. Prime fully marked.

**G13588 $2.49 ea.**

## Complete Photo Strobe Unit



Complete Photo Strobe board only requires 3VDC to power up. Simple to use, just connect the green wire to +, the black wire to - and several seconds later, when the neon ready lamp flashes just momentarily touch the ends of the yellow wires together and the strobe will flash a brilliant white light. Recycles very quickly. Strobe tube is mounted in a 1 " x .64" reflector/lens assembly. Size of unit about 2.4" x 1.4". Brand new ready to use board with flash head and photoflash capacitor (no case or battery holder included). Use 2 AAA or 2 AA batteries with holders of your choice.

**G13593 $1.99 ea.**

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### 220µF 250V Snap in Capacitor

Made by Nippon Chemi-Con this snap in features leads on .4" centers. Size 1.7" Tall x 1" Dia. Rated 85°C.

**G13673 $1.49 ea.**

### 330µF 200V Compact Snap in Capacitor

Compact snap in capacitor rated 85°C is only 1.29" Tall x .88" Dia. Leads are on .35" centers.

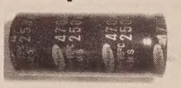
**G13594 $1.00 ea.**

### Rubycon 470µF 200V Snap in Capacitor

Compact snap in capacitor is 1.6" Tall x 1" Dia. Rated 85°C. Leads are on .40" centers.

**G13677 $1.75 ea.**

### 470µF 250V Compact Snap in Capacitor



Compact 470µF snap in capacitor is 2" Tall x .88" Dia. Rated 85°C. Leads are on .35" centers.

**G13595 $2.00 ea.**

### 560µF 250V Snap in Capacitor

Aerovox type LPR561M200E7P3 snap in capacitor is rated @ 85°C. Size only 1.6" Tall x 1.2" Dia. Leads are on .4" centers.

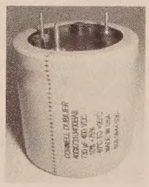
**G13672 $2.00 ea.**

### 1800µF 200V Snap in Capacitor

Made by Rubycon these are new but were shipped to us in bulk so the cases may have scratches or slight dents. Rated 105°C. Size 2" Tall x 1.40" Dia. Leads are on .40" centers.

**G13676 $1.95 ea.**

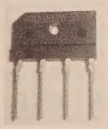
### PC Mount Computer Grade Capacitor



Made by Cornell Dubilier, these capacitors feature compact size and high ratings. Temp rating is 95°C. Each has 3 pins for mounting stability on PC boards. Type 400X731U400BAB. Value 730uf 400VDC. Size: 2.2" T x 2" dia.

**G12742 $2.25 ea.**

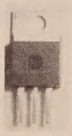
### D3SBA20 200V 4Amp Bridge Rectifier



In-line bridge rectifier with long leads is rated 200V at 4amp.

**G13598 2/$1.00**

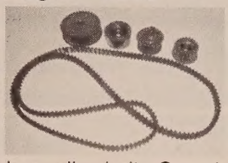
### BUZ 110S N Channel Sipmos® Power Transistor 80Amp 200 Watt



Incredibly powerful N channel enhancement mode Sipmos® power transistor features 200 watt power dissipation at TC=25°C. Can handle a continuous drain current of 80 Amps and a pulsed drain current of 320 Amps. Gate source voltage is ±20V. This powerful device is in a plastic T0220 case with metal tab. Prime fully marked new part with leads slightly shortened for PC board mounting.

**G13653 2/$1.00**
**Factory Tube of 50 for $20.00**
**Factory Box of 500 for $150.00**

### Pulley Belt and Gear Packaged "Used"



This package is perfect for use in large robots or machines. It consists of a brand new double sided type pulley belt that is about 41" in length and 3 used gears plus a used idler pulley. All match the "teeth" on the rubber pulley belt. Gear 1 is about 2.2" OD and has a .36" inside dia. "D" bore with set screw, gear 2 is about 1.3" OD with an internal bearing with a .31" dia. inside bore, gear 3 is about 1.2" OD and has 2 lip edges and a slotted inside .36" Dia. bore with set screw. the idler pulley is 1.4" OD and has an internal bearing with a .39" internal bore. All gears/pulleys are made out of metal and are used, however they were made to work perfectly with the new pulley belt supplied, and can be used inside or outside of belt (double type belt). Complete set as listed above.

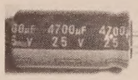
**G13689 $10.00**

### Compact Radial High Voltage Capacitors

Great for making strobelights or high voltage power supplies. Each is brand new with full length leads on tape & reel. Each is .83" Tall x .52" Dia.

| | | | |
|---|---|---|---|
| **22µF** | **350V** | **G12600** | **$1.00 ea.** |
| **47µF** | **160V** | **G12601** | **75¢ ea.** |
| **47µF** | **200V** | **G12602** | **$1.00 ea.** |

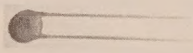
### 4700µF 25V Radial Capacitor



Samsung 4700µF 25V radial capacitor is 1.4" x .72" Dia. Full length leads. Rated 85°C.

**G13665 2/$1.00**

### .05µF 25V Small Disc Capacitor



Small green case disc ceramic capacitor is only .38" Dia. With long leads.

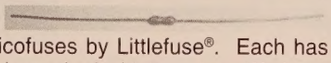
**G13623 6/$1.00**

### .0536µF 1% 63VDC Precision Film Capacitor

KP axial lead blue epoxy case precision film capacitor by Philips is about .55" x .26" Dia. Fully marked with full length axial leads.

**G13648 5/$1.00**

### Tiny Picofuses



Small axial lead Picofuses by Littlefuse®. Each has full length leads as is marked with its value. We have the following values.

| | | |
|---|---|---|
| **1/2 Amp** | **G13627** | **4/$1.00** |
| **9/16 Amp** | **G13630** | **4/$1.00** |
| **1 Amp** | **G13633** | **4/$1.00** |
| **2 Amp** | **G13635** | **4/$1.00** |
| **3 Amp** | **G13637** | **4/$1.00** |
| **5 Amp** | **G13639** | **4/$1.00** |

### BTB12 600CW 600V 12Amp Triac

Super powerful Triac by ST features a T0-220AB case and a rating of 600V @ 12 Amps. Great for AC switching and they are specially recommended for use on inductive loads, thanks to their high commutation performances.

**G13668 2/$1.00**

### JRC 7805A Voltage Regulator

Plastic case +5VDC @ 1amp voltage regulator by JRC. Prime marked 7805A.

**G13621 2/$1.00**

### Duracell® 2 Pack AA Alkaline Batteries

Prime Alkaline battery by Duracell features built in powercheck™ battery condition indicator. These are fresh stock with expiration dates of 2007 or 2008. Brand new shrink pack of 2 batteries.

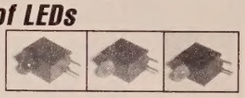
**G13687 $1.49**

### Duracell® AAA 4 Pack Alkaline Batteries

Prime alkaline battery by Duracell features built in powercheck™ battery condition indicator. These are fresh stock with expiration dated of 2007 or 2008. Brand new shrink pack of 4 batteries.

**G13688 $1.79**

### Lumex Factory Bag of LEDs



Prime factory bag of 500 Lumex right angle T1 LEDs in a black holder. These are used as indicators on PC boards, CPU motherboards, displays etc. Sold only by the bag of 500. Full factory bags with QC stamp and part # listing. See Lumex internet website for full specs. Less than 2¢ per LED.

| Lumex Part# | Color | Stock# |
|---|---|---|
| **SSF-LXH103ID** | **Red** | **G13624** |
| **SSF-LXH103LGD** | **Green** | **G13626** |
| **SSF-LXH103YD** | **Yellow** | **G13628** |

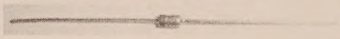
**Your Choice $9.50 / bag of 500**

### Mini Strobe Tube & Reflector

Bright Xenon strobe tube and reflector is about .96" L x .89" W x .74" D. Brand new with 2 copper tabs for anode & cathode and 1 aluminum tab for trigger lead.

**G13603 $1.00 ea. • 10 for $8.00**
**100 for $50.00 • 1000 for $450.00**

### 1N4760A 68V 1watt Zener Diode



Prime high voltage zener is fully marked with long leads on tape and reel.

**G13647 5/$1.00**

### LM3915N Bar Graph Display Driver

Type LM3915N 18 pin Dip IC features 3dB steps for creating bar graph displays up to 10 segments. Made by National.

**G13658 $1.49 ea. • 10/$12.00**

### LM158J6 Dual Op Amp

Dual Op Amp in the 8 pin mini-dip package. Operates on 3 to 30V. High gain amplifiers designed for single voltage supply.

**G13662 4/$1.00**

### LM567CN Tone Decoder

Prime 8 pin Dip case tone decoder by National. This is one of the most commonly used tone decoders as used in hundreds of circuits.

**G13659 3/$1.00 • 100/$25.00**

### HCF4046BE Micropower Phase-locked Loop

Micropower PLL by ST features a 16 pin dip package. Prime fully marked parts.

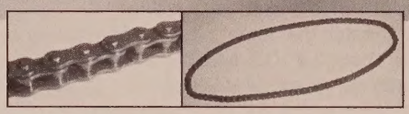
**G13660 2/$1.00 • Tube of 25 for $10.00**

# ROBOT BUILDER ITEMS!

See Page 74 for additional items

**Visit Our New Online Robot Section at: www.goldmine-elec.com**

## Miniature Roller Chain

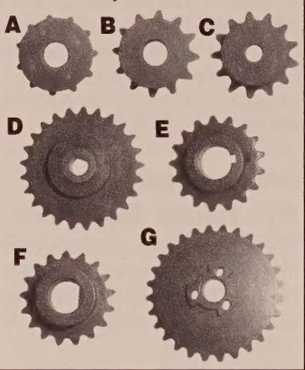


Metal #25 roller chain with master link makes a 23" long chain. Works with all sprockets listed below. Great for making super powerful type robots. Brand new!

**G13605 $2.49 ea.**

Glass-reinforced Nylon 1/4" Pitch Sprockets for use with above roller chain. Most of these sprockets were designed to press onto shafts, however you can drill and tapp to install set screws if you wish.

| Fig. | Tooth | Approx. Outer Dia. | Bore | Stock # | Price |
|---|---|---|---|---|---|
| A | 11 | 1" | 5/16" | G13606 | $1.00 ea. |
| B | 12 | 1.1" | 5/16" | G13607 | $1.00 ea. |
| C | 13 | 1.17" | 1/4" | G13608 | $1.25 ea. |
| D | 25 | 2.1" | 5/16" "D" | G13609 | $1.50 ea. |

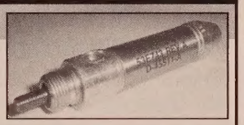



**Metal Types for Above Chain**

| Fig. | Tooth | Approx. Outer Dia. | Bore | Stock # | Price |
|---|---|---|---|---|---|
| E | 17 | 1.48" | 1/2" (slotted) | G13610 | $1.50 ea. |
| F | 17 | 1.48" | 1/2" "D" | G13611 | $1.50 ea. |
| G | 28 | 2.37" | 3/8" | G13612 | $2.00 ea. |

## Create Powerful Mechanical Motion by using the following Air Cylinders!

### 4" Bimba Pneumatic Air Cylinder (Used)



Type 53E743 air cylinder by Bimba requires only 15 to 20 psi of air to activate. Has .5" bore, .75" stroke and .25" threaded rod. Double action with 5/8" dia. threaded mounting bushing. Body diameter is .86". Used – good operating condition.

**G13617 $3.95 ea.**

### 3.42" Bimba Pneumatic Air Cylinder (Used)

Type 53E712 air cylinder by Bimba requires only 15 to 20 psi of air to activate. Has .5" bore, .95" stroke and .25" threaded rod. Double action with 5/8" dia. threaded mounting bushing. Body diameter is .86". Used – good operating condition.

**G13616 $3.95 ea.**

### 3.88" Bimba Pneumatic Air Cylinder (Used)

Type 53E732 air cylinder by Bimba requires only 15 to 20 psi to operate and features a single action with a spring return out. Has .75" bore, .75" stroke and a 7/16" threaded rod. Features a threaded 3/4" bushing for mounting. Body diameter is 1.58". Used – good operating condition.

**G13615 $3.95 ea.**

### 3.17" Bimba Pneumatic Air Cylinder (Used)

Type 53E582 air cylinder features a spring return retract and a .75" bore, .75" stroke single action 7/16" dia. threaded rod. Has threaded 3/4" bushing for mounting. Requires 15 to 20 psi to operate. Body diameter is 1.58". Used – good operating condition.

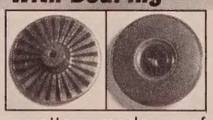
**G13614 $3.95 ea.**

### 1.08" Dia. Magnetic Wheel with Shaft and Bearing

This is similar to the 1.1" magnetic wheel we sell, however this one has a 1" Tall .08" shaft attached and a .2" Dia. bearing that is removable. Again the magnet is very strong. The magnet is attached to a non magnetic metal base so the force of the magnet is directed upwards where the shaft is. Very precision made. This one has no optical encoder pattern. Looks like a great item for experimentation or Robotics. Wheel and bearing only.

**G13636 $2.99 ea.**

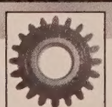
### 1.1" Dia. Magnetic Wheel with Bearing



This was made to form a basis for a special servo drive motor. Underneath this wheel, coils would be energized to turn it at a precise speed. Has optical encoding pattern made up of chrome like segments on top. Magnet is very strong for its size. Overall diameter of magnet is about 1". Thickness of wheel and magnet is about .12". Has internal bearing to allow it to rotate on .08" Dia. shaft. Magnetic wheel and bearing only – no coils or other items.

**G13638 $2.49 ea.**

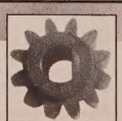
### 20 Tooth Plastic Gear



Small 20 Tooth gear has metal bushing and strong plastic teeth. Overall OD is about .84" and ID is about .32". Width of gear is about .24".

**G13651 $1.00 ea.**

### Small 9/16" OD Drive Gear



Small 12 Tooth drive gear has a "D" shaped 3/16" dia. internal hole and is made out of very strong plastic. Overall outer dia. is .55" and width of gear is about .6" Tall.

**G13650 $1.00 ea.**

### Mabuchi RC-260RA 4.5 to 6VDC Motor

Great little motor for use in robot applications features 9800 RPM at 4.5V unloaded. At maximum efficiency the RPM is 7750 current is .53amp and torque is 15.1g-cm. Stall current is 2amp with torque of 72g-cm. Size of body is 1.2" L x .93" Dia. Shaft is .28" L x .075" Dia. Brand new with solder eyelets.

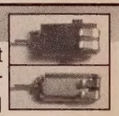
**G13619 $1.29 ea. • 2/$2.25 • 10/$10.00 100/$89.00 • 1000/$800.00**

### Small Efficient 1/2V up to 9VDC Motor

This small motor is so efficient it will even operate on one solar cell (.5V). Size of motor about .95" Dia. x .55" L. Has .40" L shaft that is .08" Dia. Brand new–has solder eyelets and flexible color coded leads (either set can be used). Made by Samhongsa.

**G13622 $1.29 ea. • 10/$10.00 100/$80.00 • 1000/$675.00**

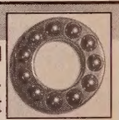
### Micro Motor



Tiny pager type motor without the weight is perfect for making tiny Beam robots, or spinning tiny propellers on miniature model plane. These do not have the weight on the shaft so they are much more useful. Operates from 1V up to 5VDC. Our picture shows the motor with and without the protective rubber boot (just cut it off with a knife or razor blade if you wish). Brand new with 2 metal solder connection tabs. Size of body about .45" L x .19" Dia. Shaft is about .15" L x .025" Dia.

**G13625 $1.49 ea. • 10/$12.00 100/$100.00 • 1000/$750.00**

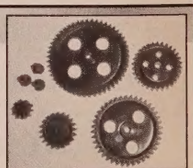
### Thrust Bearing



Consists of 11 steel ball bearings in a metal race. Each ball bearing is about 1/4" Dia. and the overall size of the race is about 1.27" in outer diameter. We have soldered metal posts to the race and attached the posts to the bottom of a circuit board to make a free wheelin' robot!

**G13613 $1.00 ea. • 10/$5.00**

### Complete Set of 5 Gears



Very useful set of 5 matching gears made out of plastic. The smallest has 10 teeth and the largest has 50 teeth. The molded gears have .15" bores but can be reduced to .065" bores by using the inserts that come with the set. Complete set of 5 gears and five inserts.

**G13618 $2.00 • 10 Sets/$18.00 100 Sets/$150.00**

### Mechanical/Electronic Interrupter

This is a 2.3" L x 1.1" W x 1" H assembly with metal base that has a Omron opto interrupter mounted. It also has a 3.8" L plastic probe that has a spring return. When the probe comes in contact with a hard surface, a flag is moved from between the slot of the opto interrupter so that a signal is produced that can control a LED, relay IC etc. Probe extends about 1.7" and can be pushed all the way in (except for the last .4"). Brand new – no specs. Great robot item.

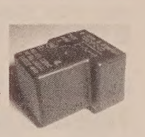
**G13649 $2.00 ea. • 10/$8.00 100/$75.00 • 1000/$695.00**

### J107 N-Channel JFET

High performance JFET analog switches designed for low on-resistance and fast switching. Standard T092 plastic case. Prime marked units by Vishay Siliconix.

**G13703 4/$1.00**

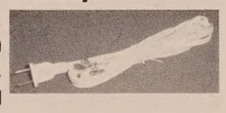
### Potter & Brumfield T9AS1D12-22 22VDC



Relay by P&B features SPST 30Amp at 240VAC contacts and a 22VDC coil.

**G13667 $1.49 ea.**

### White Line Cord with Neon Lamp



Brand new nice quality 6 ft. long white line cord with neon lamp/resistor attached to end. Has molded polarized 2 prong plug on end.

**G13664 2/$1.00**

### 3Amp SMD Fuse

Made by Littlefuse® this 3Amp 125V fuse is designed for SMD mounting. Size is only .29" L x .16" W. Fully marked. Has 2 solder pads for SMD mounting.

**G13655 2/$1.00**

### Tiny Pin Socket for LEDs, Transistors

Make any type of tight precision fitting socket for LEDs or transistors using these tiny machine type socket pins. Size only .138" Tall x .037" dia. with a .05" Dia. lip. Simply solder into hole on PC board and insert LED or transistor lead into it. Very tight grip, however you can pull your LED or transistor out if you wish to replace it. Very useful. (Above illustration magnified 200%)

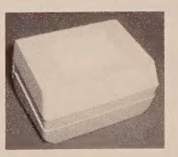
**G13666 Bag of 20 Socket Pins $1.00**

### Workout PAAL

Multifunction unit features digital pedometer, personal attack alarm, countdown timer, stop watch, thermometer and pace synchronization beeps. This sport yellow 4" x 2.4" device is meant to clip on your belt and provides calorie consumption (burned in kilocalories) distance ran (in km or miles); average speed, number of steps and even pace synchronization. In addition it has an ear piercing 103dB @ 1 meter panic alarm activated by a pin pull if you're attacked. Other features include a digital clock, stopwatch, alarm, countdown timer, plus a digital thermometer which can display ambient temperature degrees C or F. These are in the manufacturer box-requires 3 AAA batteries (not included). With complete instruction book.

**G13314 $12.95 ea.**

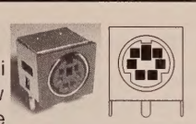
### Raytek BISPY 512 PIR Intrusion Detector



Brand new self contained, stand alone passive infrared intrusion detector, designed for wide area interior motion detection. Detects in an oval pattern 50 feet long and 80˚ wide. The unit requires 12VDC and has separate outputs for a N/C alarm circuit and a built in tamper switch. This model has precision engineered segmented mirror optical system instead of the usual fresnel lens. Made for wall or corner mounting. Complete with all instructions. Size 4 3/4" x 3 1/4".

**G13371 $19.95 ea.**

### 6 Pin Mini DIN Receptacle



Female right angle PC mount 6 pin mini Din receptacle. These are brand new and are the same type that are on the back of many computers (mouse and keyboard inputs). Has metal shell for grounding. High quality unit. Has PC pins.

**G13692 5/$1.00 • 100/$18.00 1000/$155.00**

### Super Sensitive Electret Microphone

Small metal case microphone for audio applications has a built in FET. Use with a 15K resistor to the + lead. Ground goes to the case lead. Has small black dust cover. Overall diameter is .39". Height is .30". Has 2 PC pins for connection.

**G13702 99¢ ea.**

### 10Amp DPST Rocker Switch

Powerful rocker switch by C&H snaps into a .75" x 1.5" hole. Features black body and white rocker. Contacts are DPST rated 10Amp @ 250VAC Very precision snap action.

**G13675 $1.00 ea. • 10/$7.50**

### C&K Miniature Pushbutton Switch TP11

Tiny pushbutton switch can be panel mounted in a .18" hole using supplied nut or PC board mounted. Features black plastic actuator. Contacts are normally open SPST momentary type rated 0.4VA.

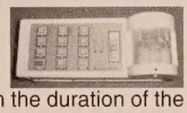
**G13671 3/$1.00 • 100/$25.00**

### 1N5404G 400V 3Amp Rectifier

Brand new full length leads rectifier is marked 1N5404G. Prime on tape & reel.

**G13587 5/$1.00**

### Secureaspace™ Alarm



Features a PIR motion detector, a keypad which you use to alarm/disarm the unit as well as program the duration of the alarm, and a LOUD built-in alarm siren. The PIR sensor detects movement within a 50˚ range of coverage at distances up to 26 feet. You can program any 3 digit personal security code to arm/disarm the unit. Alarm has four settings: Chime, Instant, Delay, and Off. Operates on two 9-volt batteries (not included) or a 200 milliamp, 9- to 12-volt AC power adapter (not included). Unit is brand new in manufacturer's box and comes with instructions and mounting hardware.

**G13267 $8.95 ea.**

### Macurco Inc. GD-2A Combustible Gas Detector

Detects heating gases: Propane (LP), and natural (methane). Features SPDT alarm and N.C. trouble relays. Does not require maintenance or recalibration. The GD-2A is designed for use alone or for connection to alarm control panels. It can operate on 12 to 24volts. Consists of an attractive 2 part plastic case which allows the GD-2A to be installed over a four inch square or double gang electrical box, providing a near flush mount. Operates on 12 to 24V AC or DC @ approx. 83ma. Color white. Relay contact rating .25Amps 100V. Operating temp range 32˚ to 120˚F. These are brand new in original factory box with instruction sheet. UL listed. Don't confuse these with inexpensive marginal units - these are worth over $80 each and are one of the best units made!

**G13287 $39.95 ea.**

### Small Voice Boxes

Small self contained voice boxes say a phrase in a mans voice each time you squeeze them. Size of box is only 2" x 1 5/8" x 3/4". Features a built in speaker, a tiny circuit board and built in batteries. Brand new white plastic box. These arrived in bulk cartons marked "Hallmark". We have 2 different types with the following phrases.

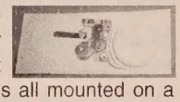
| |
|---|
| "Ho Ho Ho Merry Christmas" (Santa voice) **G13543 99¢ ea. • 10/$5.00** |
| "Gurr I'm Wild About You" (jungle guy) **G13679 99¢ ea. • 10/$5.00** |

### Miniature Sound Boxes

Similar to above but only 1.9" x 1.4" x 3/4". The "turkey" is just the realistic sound of a crazed turkey (not human voice).

| |
|---|
| "Goble Goble Goble" (sound of crazed turkey) **G13680 99¢ ea. • 10/$5.00** |
| "Happy Halloween Ha Ha Ha" (Scarry voice) **G13681 99¢ ea. • 10/$5.00** |

### Small Sound Modules for Greeting Cards



We have the following sound modules that produce the music or voices as listed. Each has a built in flat piezo speaker and batteries all mounted on a peel and stick surface. These are ready to mount in any greeting card you wish (simple instructions are included). Sound plays each time its activated!

| |
|---|
| Classical tune (we believe its Beethoven) **G13682 79¢ ea.** |
| Crazed laughter (this guy must be ticklish) **G13683 79¢ ea.** |
| High performance car accelerating and shifting **G13684 79¢ ea.** |
| Whistle whistle (guy trying to impress his girlfriend) **G13685 79¢ ea.** |

### PIR Wireless Ceiling Alarm

Features keychain remote that activates the sensitive PIR Ceiling Mount PIR Detector. Installs in minutes using included hardware. Has built in 100dB electronic siren and automatic exit and entry delays. Requires 6 AA batteries for main unit (not included). Coverage is 360˚ within a 20' range. Requires no wiring. Color white. New in blister package.

**G13154 $14.95 ea.**

### PIR PAAL™ Personal Attack Alarm

This compact portable high tech device has all the features you need to help protect you when you travel. It features a personal attack alarm that produces an ear piercing siren to attract help (activated by a pin pull), a sensitive PIR motion detector with 30 second exit delay to guard your hotel room when you're out (has a range of 20ft with a 100˚ arc, an optional wedge in door or window alarm activator switch for even greater security, an accurate digital clock with alarm and snooze bar so you won't miss an appointment and a handy built in flashlight. All this in a very high tech looking , attractive compact flat black case. The detail, all inclusive features, and compact size makes this a real desirable item to have with you. Size is only 3.9" L x 2.3" W x 1.6" Thick. Uses 3 AAA batteries (not included). In manufacturer box with instruction booklet, carry strap and optional wedge switch with cable. You won't believe the engineering that went into this!

**G13311 $14.95 ea.**

### Latest Technology Rechargable Polyacene "Wafer thin" Battery (PAS 920)

Made for memory backup in cell phones these represent a breakthrough in battery technology. These brand new tiny batteries use proprietary polycenic semiconductor (PAS) polymer technology. Using this technology for the electrodes in these secondary batteries have allowed a more stable, higher capacity battery, than bi-layer capacitor batteries. This Kanebo PAS920-5-VB6R-2 battery is only 9.3mm (dia.) x 2.3mm (thick). It has metal tabs for direct soldering to a circuit board. This battery can be charged and discharged over and over again. The factory QA certificate on these lists a rating of .6 Farad and an internal resistance under 20Ω. This particular battery was made for one of the largest cell phone manufacturers and their name is listed on the large factory cartons. These batteries are perfect for hundreds of applications. We charged one up and it powered a flashing LED for about an hour before needing to be recharged. Unlike nicads these batteries will discharge over a period of time (even if not connected to a circuit) and they are shipped uncharged. You'll be amazed at the capacity for such a tiny wafer thin cell. Rated voltage 3VDC.

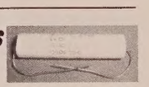
**G13133 5/$1.00 • 100/$15.00 • Sealed Factory Pack of 500/$50.00**

### 12VDC Alkaline Lighter Battery L1028/23A

This popular type battery is found in many keychain car alarm remote controls, electronic lighters and various compact electronic devices. Its size is about 1.1" L x .39" Dia. Type L1028/23A Brand new fresh made by VINNIC.

**G13322 $1.00 ea.**
**Factory Box of 50 for $40.00**

### Super High Voltage Capacitors 10,000 Volts



These are perfect for high power lasers, radiation detection units, x-ray, tesla coils, etc. These are prime film capacitors with long axial leads. Brand new-hurry we sell out of these very fast every time we offer them!

**.0047 MFD 10K±20% TRW 2 5/16"L x 7/16"Dia.**
**G13460 $8.00 ea.**

### .001µF 1.2KV Compact Mylar Cap

High quality epoxy dipped high voltage mylar capacitor is only .7" L x .2" W x .4" H. With formed leads as shown on .6" centers.

**G13318 10/$1.00 • 1000 for $80.00**

### Prime Dip Tantalum Capacitors Special Purchase

We made a tremendous buy on fully marked prime dip tantalum capacitors. Hurry we will probably never be able to offer these at this low price again. All are long leads unless marked with *. (*PC Leads)

| Value | Volts | Stock# | Price |
|---|---|---|---|
| .33µF | 16V | G13414 | 20/$1.00 |
| .47µF | 16V | G13415 | 20/$1.00 |
| 1µF | 25V | G13417 | 15/$1.00 |
| 1µF | 35V* | G13418 | 15/$1.00 |
| 1.5µF | 35V | G13419 | 10/$1.00 |
| 2.2µF | 16V* | G13420 | 10/$1.00 |
| 4.7µF | 10V | G13422 | 8/$1.00 |
| 4.7µF | 16V | G13423 | 8/$1.00 |
| 4.7µF | 35V | G13424 | 7/$1.00 |
| 6.8µF | 6V | G13425 | 7/$1.00 |
| 6.8µF | 16V | G13426 | 6/$1.00 |
| 10µF | 6V | G13428 | 5/$1.00 |
| 10µF | 10V | G13429 | 5/$1.00 |
| 10µF | 16V | G13430 | 5/$1.00 |
| 10µF | 25V | G13431 | 4/$1.00 |
| 22µF | 6V | G13433 | 4/$1.00 |
| 22µF | 16V | G13434 | 4/$1.00 |
| 33µF | 10V | G13435 | 4/$1.00 |
| 47µF | 6V | G13437 | 3/$1.00 |
| 68µF | 6V | G13438 | 3/$1.00 |
| 68µF | 10V | G13439 | 3/$1.00 |
| 100µF | 3V | G13440 | 3/$1.00 |

### Panasonic Rechargeable Sealed 12VDC 1.3Amp hr Lead-Acid Battery

Compact high power lead-acid 12V battery can be recharged over and over again. Great for solar powered lighting applications, alarm systems, larger robots. Rated (12VDC, 1.3ah/20HR). Cycle use 14.5~14.9V, initial current less than .52Amp and standby use 13.6-13.8V. These are new-not pulls. Has 2 metal terminals on top for hookup. Size about 3.8" L x 1.9" W x 1.95" Tall. Panasonic Part #LC-R121R3PU.

**G13310 $5.95 • 2 for $10.00**

### 1 Farad Super Cap

Small super cap made by TOKIN is only 1.1" Dia. x .38" Tall. Rated 1 Farad (1,000,000 microfarads) at 5.5VDC. Great for memory backup or use in place of a battery in some circuits.

**G13486 $2.49 ea.**

### Miniature Precision Ceramic .5pf - 5.6pf Adjustable Capacitor

Tiny ceramic adjustable 2 lead capacitor features metal adjustment slot on top. Size only .195" Dia. x .15" High. Lead spacing is .16". Made in Russia by Voltronics International Corporation. Very precision made.

**G13324 2/$1.00**
**Factory Box of 1000/$250.00**

### CR2016 Lithium Coin Battery

Factory fresh CR2016 lithium coin batteries. These are full power Chinese made units so we can offer them at a much lower price. Cosmetically they are not as nice as the Japanese counterparts, but they work just as good. Great replacement in memory backup applications, small LED lights, radios etc. Size 20mm dia. x 1.6mm thick.

**G13105 3/$1.00**

### Sony Fast Charge 3.6V 1000MAH Nicad Pack

Consists of 3 high output 1.2V 1000mah "AA" size nicads with tabs connected in series to form a 3.6V@1000mah pack. Has shrink plastic covering over the pack and flexible wire leads with 2 slot female connector. Overall size about 2" x 1.65" x .56".

**G13569 $2.45 ea.**

### Keystone Metal "AA" Battery Holder

Type 182 metal battery holder by Keystone features solid reliable grip to hold 4 "AA" batteries side by side. These have no other wires connecting the cells so you may connect them separately or wire them in series or parallel. Brand new – nicely made.

**G13514 $1.00 ea.**

### Compact 220µf 160V Radial High Voltage Capacitor

Super compact 220µf 160V capacitor is great for strobes and other high voltage applications. Made by Rubycon this capacitor has an 85°C temperature rating and long leads. Size: .71" Dia. x 1" H.

**G13548 $1.25 ea. • 10 for $9.00**

### Compact 10µf 100V High Voltage Radial Capacitor

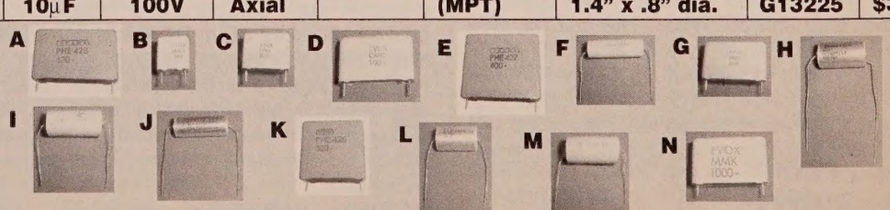
Small radial capacitor by Rubycon is rated 10µf 100VDC yet is only .47" H x .25" Dia. Temp. rated 85°C. Has long leads on tape & reel.

**G13552 4/$2.00 • 100 for $35.00**
**1000 for $279.00**

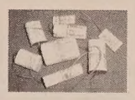
### Metallized Polyester, Metallized Polypropylene and Metallized Polycarbonate Film Capacitors for Audio Crossover Applications

Low noise metallized film capacitors made for high end a/d/s/ car audio crossover systems. These were installed along with the audio inductors in their famous crossovers. Make your own powerful custom crossovers with these prime, new, high quality capacitors. Made by RIFA/EVOX, IC, ASC and other top brands.

| Fig. | µF | V | Mtg. | Manuf. | Type | Size | Stock # | Price |
|---|---|---|---|---|---|---|---|---|
| N | .22µF | 1000V | Radial | EVOX | (MMK) | 1.2" x .4" x .8" | G13212 | $1.00 |
| A | .47µF | 630V | Radial | RIFA | (PHE428) | 1.6" x .6" x 1" | G13213 | $1.25 |
| B | 1.5µF | 63V | Radial | EVOX | (MMK) | .4" x .2" x .5" | G13214 | 75¢ |
| C | 2.2µF | 63V | Radial | EVOX | (MMK) | .7" x .3" x .6" | G13215 | 85¢ |
| D | 2.2µF | 100V | Radial | EVOX | (CMK) | 1" x .3" x .6" | G13216 | $1.00 |
| E | 2.2µF | 400V | Radial | RIFA | (PHE427) | 1.6" x .7" x 1.4" | G13217 | $1.50 |
| F | 4.0µF | 250V | Axial | | | 1.6" x .5" dia. | G13218 | $1.50 |
| G | 4.7µF | 63V | Radial | EVOX | (MMK) | 1" x .3" x .6" | G13219 | $1.25 |
| H | 4.7µF | 100V | Axial | ASC | | 1.1" x .6" dia. | G13220 | $1.50 |
| I | 4.7µF | 160V | Axial | IC | (MPW-R) | 1.3" x .6" dia. | G13221 | $1.50 |
| J | 6.8µF | 100V | Axial | ASC | | 1.6" x .6" dia. | G13222 | $1.75 |
| K | 6.8µF | 300V | Radial | RIFA | | 1.2" x .8" x 1.2" | G13223 | $2.00 |
| L | 10µF | 100V | Axial | ASC | | 1.3" x .8" dia. | G13224 | $3.50 |
| M | 10µF | 100V | Axial | | (MPT) | 1.4" x .8" dia. | G13225 | $3.50 |



### High Voltage Film Capacitor Assortment



This tremendous assortment contains 8 powerful high voltage film capacitors. Capacitors may range anywhere from .1uf to 3.3uf and higher with voltage ratings from 200 to 400V. DC and AC types will be in the mix. This is a great opportunity to stock up and save! All caps are brand new. Package of 8.

**G13240 $5.00**

### 5.5mm DC Power Jacks with NC Switch

Small PC mount power jacks designed for 5.5mm barrel plugs. Each has N.C. switch contacts (3 lead jack). We have 2 different types of center post diameters as shown. Prime great quality jacks.

**G13507 2.0mm**
**2/$1.00 • 100/$35.00 • 1000/$200.00**

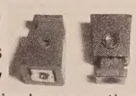
**G13512 2.35mm**
**2/$1.00 • 100/$35.00 • 1000/$200.00**

### H H Smith Red Binding Post

Standard size deluxe Red binding post by H H Smith accepts standard banana plug on top and allows you to screw post knob down to hold wires. Insulated panel mount type with all hardware in a sealed manufacturer bag. Part# 799-102.

**G13513 $2.00 ea.**

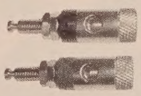
### Quick Connect Insulated "Push Down" Wire Connector for PC boards



Small rectangular plastic connector is mounted to your PC board using screw supplied (this is also used for the electrical connection to the PC board). To connect a wire to that electrical connection on your PC board, you simply push down on the top insulated button and insert up to an 18 ga. wire. When you release the button the wire is held firmly making perfect electrical contact. Great for car audio projects. Size about .5" sq. x .75" tall. We have 2 colors available.

**G13130 Red 2/$1.00**
**G13131 Black 2/$1.00**

### Gold Plated Binding Post



High quality precision made heavy gold plated binding post. Feedthrough panel mounting type with panel mounting insulating rings and gold nuts for mounting. Size above panel about .87" tall x .42" dia. Positive screw type action with large hole for connecting large diameter wire securely for serious audio applications.

**Black Insulating Ring G13163 $2.00 ea.**
**Red Insulating Ring G13167 $2.00 ea.**

### Gold Plated RCA Male Plug

Very high quality gold plated RCA male plug was made for use in a/d/s/ car stereo system applications. It features a gold plated strain relief, a gold plated knurled metal body and a thin color band (red or black) to allow easy identification. This is a very nice plug! We have 2 colors.

**Red Band G13140 $1.49 ea.**
**Black Band G13141 $1.49 ea.**

### Gold Plated Terminal Rings

Great for making high quality audio connections, these gold plated insulated terminals can handle 10/12 gauge wires. "Wired installation accessories by Orion" Part # 0333-0233. This is a retail package of 4 red insulated terminals and 4 black insulated terminals (8 all together). Gold plated deluxe ring terminals.

**G13122 $2.00**

### Precision Blood Pressure Monitor Circuit Board

These were the "brains" of a late model consumer blood pressure monitor. On each board you will find an LCD Display, pressure sensor, piezo and other various electronic components. Sorry, but the air pump, air solenoid and cuff are missing. This is a great experimentor's item. We have no data on these and we are selling them "AS IS". Size of board is 5 1/2" x 2 1/2".

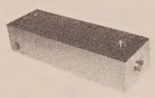
**G13247 $1.99 ea.**

### Large LEM Current Module

Similar to above but is much larger. The hole for the current carrying conductor is 25mm (1") dia. and the size of the sensor board is 2.6" W x 3.5" L x 1.3" H. The ratio on this is 1:2000, the internal resistance is 25Ω and it operates from ± 15VDC. Sorry no data sheet on hookup info on these. Brand new. Part# LC300-S/SP-15.

**G13563 $7.95 ea.**

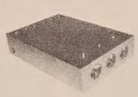
### "Gold Brick" Power Distribution Block



Giant 3.3" L x 1.1" x .73" gold plated distribution block features 1 large hole with set screw for standard battery cable and 4 smaller holes with set screws for power distribution wires. Has 4 threaded holes on bottom for mounting. Attractive brand new gold plated-may have slight surface scratches or nicks from being shipped to us in bulk. Weighs over 3/4 of a pound.

**G13168 $7.95 ea.**

### Massive Gold Plated Power Distribution Plate for Car Audio Applications



This heavy duty gold connection plate features 3 large holes with gold plated hex set screws for attaching wires the size of battery cables. It also has 8 smaller size holes with set screw so that you can tap off the power to various points. This 3.3" L x 2.4" W x .72" Thick plate weighs over 1 1/2 pounds. Has 4 threaded holes in bottom for mounting. These are brand new, heavy gold plating but may have slight surface scratches from being shipped in bulk.

**G13188 $12.00 ea.**

### SMD 2.5mm Stereo Headphone Jack

Tiny SMD mounting headphone jack for 2.5mm male headphone plugs. High quality gold plated. Size only 9mm (W) x 10mm (Deep) x 4mm (High).

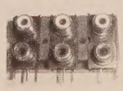
**G13562 $1.00 ea.**

### Audio 4 Input RCA Type Female Connector

Connector consisting of 4 female RCA jacks 2 red and 2 white on a black upright mounting base. PC board mounting type for stereo applications.

**G13123 99¢ ea. • 10/$8.00 • 100/$50.00**

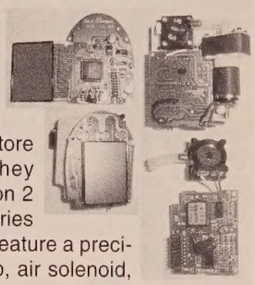
### 6 RCA Jacks with Holder



High quality right angle PC board mount assembly with 6 female RCA jacks. Inside of jack is colored white on top row & red on bottom row. Size of assembly is 2" L x .8" D x 1" H. Brand new!

**G13230 4/$1.00**

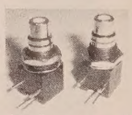
### Wrist Watch Blood Pressure Unit



These are miniature blood pressure units that are missing the case and cuff. They have an LCD display and could record and store up to 28 readings. They were designed to work on 2 AAA batteries (no batteries or holder included) and feature a precision micro size air-pump, air solenoid, micro size air pressure sensor, heart rate detection circuitry etc. We have no operating info, schematics or other data and since these are missing the cuffs we are not selling them as a functional unit - some may have a problem - we don't know. Size about 2 3/4" L x 2 1/2" W x 1 1/4" thick. Sold as-is only.

**G13238 $14.95**

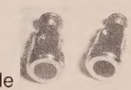
### Gold Plated Deluxe RCA Jacks



Made for a well known car stereo manufacturer, these jacks can be panel mounted or PC board mounted. Set consists of one gold plated "black ring" jack and one gold plated "red ring" jack. The set is similar to ones sold for up to $70. If you want the best possible sound use gold plated jacks!

**G13578 $3.00 set**

### Gold Plated Audio Quick Connect Wire Terminals



High quality gold plated terminals made to connect speaker wires to speakers. These are brand new and were made for a/d/s/. They are about 1/2" diameter x 3/4" tall. To use simply mount terminal to 1/4" thick cabinet using the supplied bolt. Now press down on the top of the terminal and 2 holes about .15" in dia. appear so you can insert your wire or wires. When you release the top, a firm perfect audio connection is made. Brand new-precision made. Available with color code insert on top of black or red.

**Black G13136 $1.49 ea.**
**Red G13137 $1.49 ea.**

### Gold Plated Car Battery Connector Side Mount

Heavy gold plated connector for side mounted car battery terminal. Heavy gold plated terminal has large set screw to hold standard battery cable. Deluxe attractive precision made connector for batteries that have their terminals on the side.

**G13181 $4.95 ea.**

### WBT 0201 Panel/Chassis Mount Gold Plated RCA Jack

This is the worlds highest quality Gold Plate RCA jack. It is precision make with 24K supra gold plating and Teflon dielectric. If you want the best possible sound quality from your music system you need to use these. These jacks can mount directly to a pc board and also to a panel as they have insulated mounting rings. These sell for $35.00 each. Brand new made in Germany.

**White Mounting Ring G13158 $8.95 ea.**
**Red Mounting Ring G13161 $8.95 ea.**

### Amphenol Dual Cat 5 Connector

Dual Cat 5 female PC board right angle mount connector by Amphenol. Brand new-blowout price!

**W22001 4/$1.00**

### High Quality RCA Jack Assortment

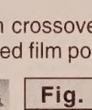
This tremendous assortment of RCA type female jacks is a must have for any audio enthusiast. These all came from an audio equipment manufacturer and most have gold plating for superior connections. This assortment contains right angle and upright PC mounting jacks in a variety of configurations. Brand new - Blowout price! Package of 6.

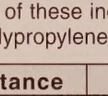
**G13239 99¢**

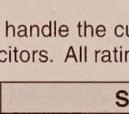
### Gold Plated Audio Quality RCA Jacks

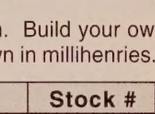
Gold plated RCA type female jacks for quality connections. Prime-perfect. Blowout price. All are PC board mounting

| | | | |
|---|---|---|---|
| **Type 1** | **Right Angle** | **G13165** | **10/$1.00** |
| **Type 2** | **Upright** | **G13173** | **8/$1.00** |
| **Type 3** | **Dual Right Angle** | **G13176** | **5/$1.00** |
| **Type 4** | **Dual Stacked Right Angle** | **G13179** | **5/$1.00** |

1 

2 

3 

4 

### Audio Power Inductors for Crossovers

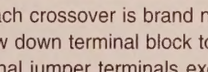
These were precision made for a/d/s/ car audio speaker system crossovers. Each of these inductors can handle the current shown. Build your own powerful custom crossovers using these inductors and our special metalized film polyester/polypropylene audio capacitors. All ratings are shown in millihenries. Cores are (O) open, (F) ferrite, (I) Iron Laminations.

| Fig. | Inductance | Current | Size | Stock # | Price |
|---|---|---|---|---|---|
| A | .12MH | 1.2amp | 1 1/4" x 15/16" Tall (O) | G13175 | $1.00 |
| B | .24MH | 1.2amp | 1" Dia. x 9/16" Tall (O) | G13178 | $1.00 |
| C | .26MH | .9amp | 7/8" Dia. x 15/16" Tall (O) | G13180 | $1.00 |
| D | .40MH | 1.2amp | 1 1/4" Dia. x 7/8" Tall (O) | G13183 | $1.00 |
| E | .60MH | 2.3 amp | 1 3/8" Dia. x 1" Tall (F) | G13187 | $1.50 |
| F | .50MH | .6amp | 1 1/16" Dia. x 1" Tall (O) | G13191 | $1.50 |
| G | .50MH | 1.2amp | 1 1/4" Dia. x 1" Tall (O) | G13193 | $1.75 |
| H | .70MH | .9amp | 1" Dia. x 1 1/8" Tall (O) | G13197 | $2.00 |
| J | 2.0MH | 3.7amp | 3 1/8" L x 1 3/16" sq. (I) | G13203 | $4.00 |
| K | 3.93MH | 3.7amp | 3 1/8" L x 1 3/8" Dia. (I) | G13205 | $5.00 |
| M | 5.0MH | 4.7amp | 3" L x 1 3/4" sq. (I) | G13209 | $5.00 |

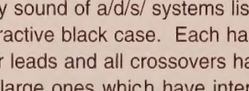
### Car Audio Speaker System a/d/s/ Crossovers

These car audio speaker system crossovers were made for expensive a/d/s/ speaker systems. You'll find rave reviews about the legendary sound of a/d/s/ systems listed on the WEB. Each crossover is brand new in its attractive black case. Each has a gold plated screw down terminal block to attach your leads and all crossovers have Hi, Mid, Lo internal jumper terminals except for the large ones which have internal selection switches. These just arrived and we have not had a chance to find the specs so we are selling them at a blowout price! We do know the larger Type A and 335i(s) could handle 100 watts. Terminals are listed in ( ).

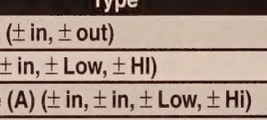
| Type | Size | Stock # | Price |
|---|---|---|---|
| Small (± in, ± out) | 2.8" x 3.1" x 1.6" | G13196 | $4.00 |
| Med (± in, ± Low, ± HI) | 3.5" x 3.9" x 1.6" | G13200 | $7.00 |
| Large (A) (± in, ± in, ± Low, ± Hi) | 3.5" x 5.2" x 1.6" | G13202 | $10.00 |
| Large (335IS) (± in, ± in, ± Low, ± Hi) | 3.5" x 5.2" x 1.6" | G13208 | $12.00 |



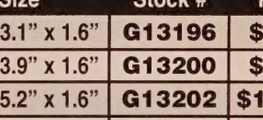
Small



Med.



Large (A)



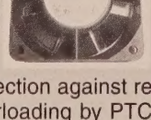
Large (335IS)

### CPU Cooler Fan/Heatsink

Model 5180 CPU Fan heatsink features a ball bearing 12VDC fan and attractive blue metal crosscut 50mm square heatsink. Has convenient metal clip design for secure mounting. Work with Z1F sockets. Efficiently reduces CPU operating temperature. Brand new - assembled in U.S.A.

**G13407 $2.95 ea.**

### Papst Type 612 12VDC 60mm Fan



This is a special purchase of brand new factory fresh Papst model 612 fans. These are rated 23.5 CFM, 6-15VDC, 40 db(A) noise, and 5300 rpm. Size of fan: 60mm x 60mm x 25mm. They also have built in electronic protection against reverse polarity, blocking and overloading by PTC-resistor. Features 2 tinned 12" long AWG 22 leads (red and blue). We were very impressed at how much air these fans moved for their size! These are some of the nicest fans that we have to offer and we know that you will be impressed by their quality and our price!

**G13534 $1.49 ea.**

### 60MM 12VDC Fan

Made by Mechatronics, this fan requires 12VDC @ .15 amp and has a 20 CFM air output. Has color coded flexible leads. Size 60mm (2.35" square x 1" thick). Brand new. Mode A6025H12D.

**G13229 $2.49 ea.**

### 12VDC Brushless 120MM (4 5/8") Delta Fan

Type WFB1212H seven blade low noise (37dB) Delta seven blade fan. Very high output 87CFM 4 5/8" x 1" 12VDC .45 amp fan has 2 long flexible color coded leads for power and one lead for alarm.

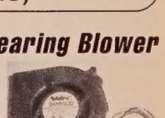
**G13147 $4.95 ea. • 10 for $35.00**

### 12VDC Fan with Heatsink

Large 5 1/2" x 2" black anodized aluminum heatsink with 12VDC fan attached for superior cooling of CPU and other electronic devices. Brand new in box. Has flexible wire leads with female connector attached. Operates on 12VDC.

**G13557 $3.95 ea.**

### Nidec 12VDC Gamma 30 Ball Bearing Blower



Model A34124 miniature blower by Nidec produces an incredible output of 25cfm and operates on 12VDC@650mA. Size only 3.83" x 3.72" x 1.3" Thick. UL, CUL, TVV rated. Has flexible wire leads.

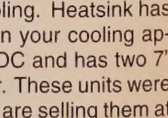
**G13555 $5.95 ea. • 2 for $10.00**

### 12VDC Fan Assortment

Prime assortment of 3 different DC fans. All fans are 12VDC and can range in size from miniature to 80mm² size. All fans are brand new. Blowout Price!

**G13358 $5.55**

### 12VDC Fan/Heatsink Combo



Efficient 50mm square x 10mm thick fan is mounted to a 136mm (L) x 50mm (W) x 25mm (T) black anodized aluminum heatsink with a large quantity of fins for efficient cooling. Heatsink has predrilled holes for easy mounting in your cooling application. The fan operates on 12VDC and has two 7" leads terminating in a female header. These units were removed from equipment and so we are selling them at a blowout price. Used good condition.

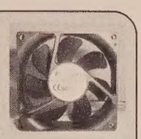
**G13270 $2.95 ea.**

### Nidec Beta V TA450DC 12VDC 120mm Fan

Tremendous output fan features 130 cfm output with operation from 12VDC@800mA. Features ball bearings and a fan speed of 4050 rpm. Sound level only 53dBA. Size 120mm sq. x 38mm thick. New with 4 flexible leads terminating in a 5 pin connector. Model B34262-34 CQ4.

**G13561 $5.95 ea. • 2 for $10.00**

### High Output Delta Fan AFB0812H 80mm 12VDC Fan



Delta/Fonsan ball bearing fan is rated 12VDC @ .50amp. Has long flexible color coded leads and a 7 blade fan for maximum cooling. RPM 3250 CFM 37.43. Noise only 34 dba. Size 80mm sq. x 25.4mm thick. Brand new.

**G13143 $2.95 ea.**
**10/$25.00 • 100/$225.00**

### Super DC Fan Assortment

Prime assortment of 7 different DC fans. Voltage range can be from 12VDC to 24VDC with various current requirements. Sizes will range from 60mm² to 80mm² or larger. All fans are new and ready for your cooling projects! Hurry - Limited time offer.

**G13365 $9.95**

### Fan Blowout

We just made a large purchase of thousands of fans and we are passing the savings on to you! You'll find fans in all popular voltages and sizes. Hurry - some of the quantities are limited. Any additional information that we know is listed in the "other" column.

60mm

80mm

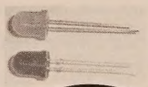
92mm

120mm

| MANUFACTURER | MANUF. PART# | VOLTAGE | CURRENT | SIZE | RPM | CFM | LEADS | OTHER | STOCK# | PRICE |
|---|---|---|---|---|---|---|---|---|---|---|
| NMB | 2408NL-04W-B30 | 12VDC | 0.11A | 60mm² x 20mm | 4200 | 27 | 2 | DC Brushless | G13333 | $1.99 |
| Comair Rotron | Flight II DC 039065 | 12VDC | 0.13A | 60mm² x 25mm | N/A | N/A | 2 | DC Brushless | G13334 | $2.25 |
| Fonsan/Delta | DFB0812L | 12VDC | 0.08A | 80mm² x 25mm | 2100 | 24 | 2 | DC Brushless, BB | G13336 | $1.99 |
| Mechatronics | F8025E12B | 12VDC | 0.240A | 80mm² x 25mm | 2800 | 46 | 2 | DC Brushless, BB | G13340 | $2.50 |
| NMB | 3110KL-04W-B50 | 12VDC | 0.30A | 80mm² x 25mm | 3250 | 39 | 2 | FG, DC Brushless | G13341 | $3.75 |
| NMB | 3110KL-04W-B50 | 12VDC | 0.30A | 80mm² x 25mm | 3250 | 39 | 2 | DC Brushless | G13343 | $2.50 |
| Sunon | KD1209PTB2 | 12VDC | 2.2W | 92mm² x 25mm | 2600 | 48.5 | 2 | BB | G13345 | $2.75 |
| Papst | Multifan 3312 | 12VDC | 2.4W | 92mm² x 32mm | 3000 | 47.1 | 2 | BB | G13346 | $2.75 |
| Alectron | 924-3012 | 12VDC | - | 92mm² x 25mm | N/A | 30 | 2 | - | G13347 | $2.50 |
| Comair Rotron-Muffin DC | MC12A7 / 03228 | 12VDC | 0.66A | 120mm² x 32mm | 3700 | 102 | 3 | SB, TO, FB | G13348 | $3.95 |
| Comair Rotron-Flight II DC | FS24K3NDNX / 032949 | 24VDC | 0.13A | 60mm² x 25mm | N/A | N/A | 3 | - | G13350 | $1.99 |
| Comair Rotron-Sprint DC | ST24A3 / 032127 | 24VDC | 0.14A | 80mm² x 32mm | 3400 | 33 | 2 | SB, FB | G13352 | $2.75 |
| Comair Rotron-Muffin XP | MS24S3H / 039002 | 24VDC | 0.4A | 120mm² x 38mm | 3400 | 110 | 3 | FB, TS, DC Brushless | G13354 | $4.95 |
| Alectron | 124-6024 | 24VDC | - | 120mm² x 38mm | N/A | 60 | 2 | - | G13355 | $3.50 |
| Comair Rotron-Sprint DC | ST4857H / 03922 | 48VDC | 0.14A | 80mm² x 32mm | 3400 | 33 | 4 | FB, TS | G13356 | $3.50 |
| Comair Rotron-Galaxy DC | GL48S7H / 031692 | 48VDC | 0.31A | 127mm² x 38mm | 3250+ | 150+ | 4 | BB, FB, TS | G13357 | $9.95 |
| Comair Rotron-Muffin XL | MX70A3 | 90VAC | 0.27A | 120mm² x 40mm | 3100 | 115 | 2 pins | FB, SB | G13332 | $8.95 |

KEY: FB=Factory Box, BB=Ball Bearing, SB=Sleeve Bearing, TS=Thermal Sensor, TO=Tachometer Output, FG=Fan Guard Attached

### 8mm Jumbo LEDs

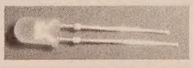


Red or Green 8mm diffused lens LEDs are perfect for attracting attention. Nice even bright glow with a large viewing angle. Operates on about 2.8V each.

**Green G13527 4/$1.00**
**Red G13530 4/$1.00**

See pages 61-63 for more LEDs

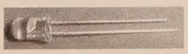
### Nichia Beautiful Diffused Lens White LED



Type NSPW515BS by Nichia is a premium white LED with a milky diffusion 5mm (T1 3/4) Lens. It has a viewing angle of 70° and the output is a bright 480mcd. Requires 3.6V to 4.0VDC @ 20ma for operation. This LED is a very high quality unit and because of this and its diffusion characteristics it's widely used in book lights, LCD screen illuminators, product illuminators, etc. This LED is factory prime with full length leads on tape and reel.

**G13255 $1.79 ea.**

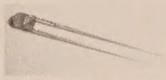
### Our Most Powerful IR LED



Type LTE-3271T clear lens 5mm IR LED made by LITE-ON features a Peak forward current capability of 2 Amp (pulsed) and a Radiant Intensity of up to 12.63 ms/sr with $I_F$-20mA. Peak Emission Wavelength 940mm. Viewing angle 50°. Forward voltage 1.65V to 2.1V. Brand new factory prime-great for making powerful IR light sources or powerful IR transmitters.

**G13160 2/$1.00**
**100 for $40.00 • 1000 for $350.00**

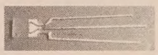
### Bright Blue T1 LED



Blue grey diffused T1 (3mm) lens Blue LED requires 4VDC and produces nice blue glow. Prime with full length leads.

**G13446 $1.00 ea. • 10 for $8.00**

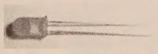
### Red/Green BiPolar Rectangular LED



Small 5mm x 7mm x 1.7mm frosted white lens rectangular LED lights up bright red, bright green or yellow. 3 leads. Prime full length leads.

**G13494 10/$1.00 • 100/$8.00**

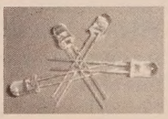
### HP High Quality T1 3/4 5mm Green LED



Diffused green lens LED by HP features long leads and nice green glow. Type HLMP 3507 features a luminous intensity of 5.2 mcd @ 10mA. Viewing angle 60°. These are factory prime high quality LEDs.

**G13113 10/$1.00**
**Factory sealed bag of 500/$35.00**

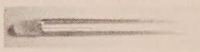
### Super Intense Brilliant Rainbow Color T1 3/4 (5mm) LED Assortment



Consists of 4 of the brightest intense color LEDs made. You get 1 blue, 1 green, 1 yellow and 1 red LED. Each of these 4 LEDs features a 5mm crystal clear lens, and each will light up with about 3VDC (except the blue LED which requires 4.5VDC). Brand new prime.

**G13157 $6.95**

### Bright Yellow and Green BiPolar T1 LED



Diffused white lens 3mm T1 LED has only 2 leads but can light up a bright yellow or a bright green. Kingbright Part# L937GYW. Brand new factory parts.

**G13458 5 for $1.00**

### 10mm Red Blinder LED

Red

One of the brightest (4000 mcd) blinding red output LEDs made. Crystal clear giant 10mm case. Factory Prime. 2.5VDC.

**G13587 99¢ ea.**

### Blinding Output Giant 10mm White LED

White

Brilliant 10mm white LED operates from 3.6V to 4.0VDC @ 25ma and produces a blinding white light. Crystal clear lens and full length leads. The MCD on these is 9000. The viewing angle is 15°. Prime factory stock.

**G13501 $5.95 ea. • 10/$49.00**
**100/$400.00**

### Blinding Output Giant 10mm Blue LED

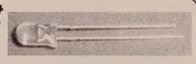
Blue

Brilliant 10mm Blue LED operates from 3.6V to 4.0VDC @ 25ma and produces a blinding blue light. Crystal clear lens and full length leads. The MCD on these is 6000. The viewing angle is 15° and the wavelength is 470mm. Prime factory stock.

**G13505 $4.95 ea. • 10/$39.00 • 100/$300.00**

See Front Cover for an Assortment of these 3 LEDs

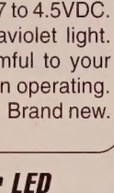
### Super Bright Ultraviolet Purple 400-405mm LED



These are brilliant 400-405mm purple UV 5mm LEDs that are perfect for use in inspecting money, lighting up invisible UV inks, blacklight posters, etc. Crystal clear 5mm (T1 3/4 lens). This uses Cree Megabright® LED dice and features a forward current of 30MA, DC operating voltage of 3.7 to 4.5VDC. Note: This LED produces intense ultraviolet light. Exposure to UV radiation can be harmful to your health. Protect your eyes and skin when operating. Buyer assumes all risks using this LED. Brand new.

**G13533 $2.49 ea.**

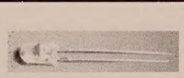
### Bright Yellow/Green Dual Color LED with Wire Leads



Bright T1 3/4 (5mm) frosted white LED lights up yellow or green. These have at least 12" long flexible wire leads terminated in a 3 slot female header on .1" centers.

**G13478 5/$1.00 • 100 for $18.00**

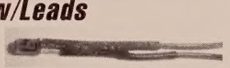
### The Blinder 5MM White LED



This white LED will have you seeing "spots" before your eyes if you look at it! It was made for an OEM that was making outdoor signs. It is brand new and features a 5MM (T 1 3/4) crystal clear lens and long leads. We do not have the MCD rating but we suspect that it is over 3000. Operates on 4.0VDC. Brand new-prime! Lowest price around on this high output white LED.

**G13177 $1.99 ea.**

### High Intensity Red LED w/Leads



See through red lens T1 3/4 (5mm) LED glows a brilliant red when 3VDC is applied to its 4" color coded insulated leads.

**G13121 5/$1.00 • 100/$15.00**

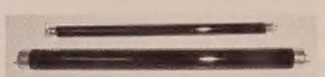
### Tiny Grain of Wheat Lamp



Tiny grain of wheat lamp with 1" long wire leads. Size of bulb about .12" Dia. x .25" Tall. Operates on 3 to 9 volts.

**G13472 4/$1.00**

### Prime Fluorescent Black Light Tubes



We made a special purchase of many of the most popular blacklight tubes and are passing the savings on to you! All tubes are brand new and are the Black Light Blue (BLB) type. Hurry - these won't last long.

| | Part # | W | Base | Size | Stock # | Price |
|---|---|---|---|---|---|---|
| Type 1 | F6T5BLB | 6 | G5 | 8 1/4" L x 5/8" Dia. | **G13241** | **$6.25** |
| Type 2 | FL8T5BLB | 8 | G5 | 11 1/4" L x 5/8" Dia. | **G13243** | **$5.95** |
| Type 3 | F10T8BLB | 10 | G13 | 12 3/4" L X 1" Dia. | **G13251** | **$10.50** |
| Type 4 | F15T8BLB | 15 | G13 | 17" L x 1" Dia. | **G13258** | **$12.00** |
| Type 5 | F20T8BLB | 20 | G13 | 23 1/4" L x 1" Dia. | **G13260** | **$14.00** |

### 13 Watt OSRAM White Fluorescent Bulb with Holder & Lens

These were made for a Solar powered lighting system and consists of a 13watt osram bulb packaged inside a retail box (Part#F13TT/27K). The box with the tube inside of it has been placed inside of a 5 1/4" x 11 1/4" x 1 1/2" metal and plastic lens box with built in light socket. The lens box has 2 color coded wires coming out of it. To use this you need to remove the 2 screws which hold the lens cover onto the metal base, then take the tube that is packed inside of lens out of its box and plug it into the light socket. You can then reassemble the lens box and connect the 2 color coded leads to your ballast or fluorescent driver circuit. Brand new - very heavy duty - well made.

**G13236 $6.95**

### Tiny But Bright Rectangular Fluorescent Lamp

Bright white fluorescent lamp is only .85"L x .78"H (excluding glass seal tip) x .18" thick. This lights up a nice bright white when connected to a high voltage. Its original use was for backlighting a small LCD display and it probably was a very costly item. We connected it to our small (2 1/2" x 1 1/8") TDK 5VDC to high voltage inverter board and it produced a bright white glow. Lamp has peel off backing to expose 2 adhesive pads on back for "press on" mounting, however this should be used in conjunction with the terminals to hold lamp in place. New-prime.

**G13406 $1.99 ea.**

TDK 5VDC-High Voltage Inverter Board to drive above lamp.

**G12866 $1.49 ea.**

### Berg 5 Position Female Header Socket

Board mount female header features 5 socket positions on .1" centers. This is a very well made socket and features 2 pins for PC board connection on each socket position (for strength). Blue case .5" L x .1" W.

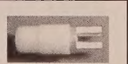
**G13129 5/$1.00 • 100 for $16.00**

### 6 Pin Snap Apart Male Header

Consists of two rows of 3 pins. Can be cut apart in 2 pin increments to allow you to customize if desired. Standard 0.10" spacing.

**G13279 10/$1.00 • 1000/$80.00**

### Teflon Terminal



Unique teflon base terminal has base that press fits into a .16" hole. The overall teflon base is about .34" Tall and a metal 2 prong silver plated terminal about .2" high sits on top of the base.

**G13656 8/$1.00**

### 8 Pin Gold Plated Dip Component Header

Great for making miniature custom circuits that plug into an 8 pin sip socket.

**G13166 $1.00 ea.**

### Gold Plated Shorting Jumpers/w Handle

Small shorting jumpers for .100" space headers. Black color with open section to allow for testing. Brand new prime.

**G13194 10/$1.00**

**Sealed Bag of 1000 $25.00**

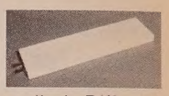
### 20 Pin Gold Plated Male Header

This high quality, cut apart male header consists of two rows of 10 gold plated pins each. Pins can be removed in pairs to allow you to customize for different applications. Standard 0.10" spacing.

**G13282 5/$1.00**

**100 for $18.00 • 1000 for $120.00**

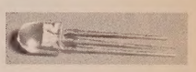
### Unique Backlight Panel



Very unique 2 7/8" long x 7/8" wide x 1/8" thick white panel lights up a bright yellow/green when 12VDC is applied. Diffused lens with "even glow" LEDs produces an attractive and bright glow area. Made to be put behind LCD displays but can be used for thousands of high efficiency lighting projects. Brand new with 2 solder pad terminals for power connection.

**G13108 $1.49 • 10/$12.00 • 100/$100.00**

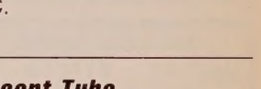
### Giant 8mm Brilliant Red Green 2 Color LED



Brilliant color LED lights up bright red or bright green. Features large 8mm crystal clear lens and 3 long leads. Operates on 3VDC.

**G13457 2/$1.00**

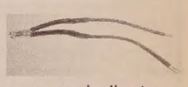
### 5 1/4" White Fluorescent Tube



Brilliant white 5 1/2"L (excluding terminals) tube is perfect for replacement in small camping lights or for new construction. Brand new.

**G13374 $1.00 ea.**

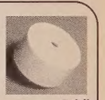
### Tiny Neon Lamp with Insulated Leads



Tiny glass neon lamp designed to operate from 120VAC when used with a 47K series resistance. Great for triggering strobe lights or as AC power on indicators. Neon bulb is only .6" long and has 3" insulated wire leads.

**G13119 4/$1.00**

### Small Piezo Speaker



Small .55" dia. x .27" high piezo speaker for alarms, alerts, timer applications. Requires external drive circuitry. Has PC pins on .30" centers.

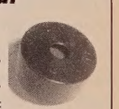
**G13581 2 for $1.00**

### 120VAC Piezo Horn

Monaco model MPB-3408 piezo buzzer emits a loud high pitched tone when its 2 insulated leads are connected to 120VAC. Size: 1 5/8" dia. (excluding mtg. ears) x 7/8" tall. Black plastic case. Brand new.

**G13101 $2.49 ea.**

### Mallory Sonalert II® Audible Signal Device



Type MSR320 by Mallory is a self contained audible signal device capable of producing a minimum sound pressure of 90db(A)@10cm. Will operate from 3VDC up to 20VDC and does not require any additional driver circuitry. Great for fire alarms, burglar alarms, automotive clocks, etc. Size 23mm (dia.) x 10.5mm (H). Has solder pins on 15mm centers. New.

**G13545 $1.00 ea.**

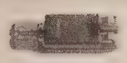
### Kyocera KBS-13DB Piezo Buzzer

Low current high sound pressure blue plastic case piezo buzzer can be driven by various transistor or IC circuits. Sound pressure level is 73db min. @ 4.090KHZ 10vp-p sq 30cm. Static capacitance is 10mf±30%. Size 15mm Dia. x 9mm (H). Has 2 wire posts. Requires electronic drive circuitry. Prime!

**G13474 $1.00 ea. • 10/$8.00 • 100/$52.00**

**See Page 68 for Additional Piezos**

### Tiny Vibrator Motor Made for Motorola Products



This tiny vibrator motor body is only .44" L x .18" Dia. It has a weight attached to its shaft. These make great motion generators to cause movement in tiny robots, and are also useful in making silent alert alarms, timers etc. Has 2 flexible terminals for power connection. Will operate from 1VDC up to 9VDC. This vibrator motor has a black rubberized boot that can be removed to reduce its size even further. It is one of the smallest and best quality vibrator motors we have ever offered.

**G13566 $1.29 ea. • 10/$10.00 • 1000/$690.00**

### Pneutronics Digital Pneumatic Valve

These were removed from large computer memory jukeboxes. They consist of a round panel mount solenoid valve which is used to convert a digital electrical signal into a digital pneumatic output. These small low power valves may be panel or screw mounted and will power small cylinders directly. These operate from 13.5VDC, have a coil resistance of 274Ω and have a 2 pin female connector at the end of two 4" wires. Size of entire unit is about 1.76"L x .66"sq. Has 2 brass pneumatic connectors on the valve, however we can only measure the outside dia. - one is .15", the other is .075". Used removed from equipment. We had these before and they sold out fast so order early to avoid disappointment.

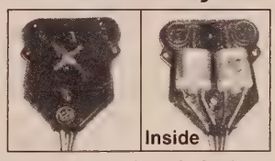
**G13462 $2.49 ea.**

### Small Car Mirror Adjuster Motors

Small but powerful 12VDC motors were designed to go into electric mirror adjustment assemblies for an American car. The factory in Mexico finished the production run and had about 10,000 units more that we bought. Assembly has two 1.24" L x .96" Dia. motors with a .6" L x .08" Dia. shaft. These motors are lower speed than most motors of this size and they have a good amount of power for their size. We put a current meter on them and they draw about 20Ma unloaded and about 250ma loaded. Wire leads are about 17" Long. These are brand new and perfect, however they have red paint coating on part of the motor (to make sure that they would be sold as surplus - not used for the original costly assembly). These look like great candidates for robots!

**G13327 Assembly of 2 Motors $1.49**

### Car Mirror Adjustment Sub Assembly




This compact assembly contains 2 small DC motors with worm gears. The 2 3/4" x 3 1/4" assembly comes apart by removing 3 screws, however you may want to use it as is for its 2 female sockets that can rotate independently in either direction at a decent torque by applying 12VDC (change polarity and the direction changes). Operates on 12VDC. With 1 foot long 4 wire cable (2 wires for each motor). Sorry no other info. New Condition. Made for an American car manufacturer. Note there is grease on the inside gears.

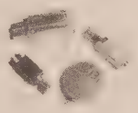
**G13325 $2.49 ea.**

### 3VDC Micro Air Pump

Tiny but powerful "rolling" type air pump made for a "Wrist Watch" blood pressure monitor. This air pump can operate from 1.5VDC up to 5VDC. It requires 300ma @ 3V. Very efficient design and high air output. Size of air pump head is 1 1/16" L x 1/2" W. Body length including nozzle is 1 7/8" L. Removed from new units - perfect condition. Nozzle is about .12" dia.

**G13256 $9.25 ea.**

### Miniature Vibrator Motor Assortment



Assortment of 4 different miniature vibrator motors made for "silent" alert feature in cell phones and pagers. This package even includes one of our tiny disk vibrators which has no external shaft. The package is useful for anyone interested in making tiny robots.

**G13547 $2.49 ea.**

### Small DC Motor with Gear

Small DC motor operates from 1.5V up to 12VDC and has a white plastic gear on end of shaft. Size about .8" Dia. x 1" L with a .75" L x .34" Dia. gear on shaft. Motor has disk cap across power input terminals to reduce noise.

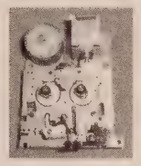
**G13487 $1.29 ea.**

### 24VAC Timer Motor

Gear type timing motor has high torque. Operates from 12VAC up to 24VAC. RPM about 3 to 4 at 24VAC. Has flexible wire leads. Size about 2.5" x 1.9" oblong x .9" thick. Has .28" Dia. x .30" H. 8 tooth metal gear. New.

**G13511 $2.49 ea.**

### Mini Precision Cassette Drive w/Solenoid



Brand new cassette drive features various gears, pulleys, levers, a solenoid and a precision made .9" dia. x .8" high 12VDC motor. Overall size about 3.2" x 2.3" x .9".

**G13115 $3.95 ea.**

### Heavy Duty 12VDC 4000RPM Motor

Medium size motor has the power for making larger type robots. The body of this motor is about 1.87" Dia. x 2.59" L and the shaft is a .35" L x .16" Dia. "D" type. Has flexible wire leads.

**G13549 $3.00 ea.**

### Precision Cassette Motor 13.2VDC

Small 1.35" dia. x .85" thick motor made by Matsushita Electric. Part# MMT-3RE2MJ features shielded cable, shielded banding and a .31" dia. brass pulley. Brand new.

**G13377 $1.49 ea.**

### Precision Ball Bearing Drive Coupler

Made for a motor drive application this unique item features an inner axle that rotates on ball bearings against an outer housing. The outer housing is 1.87" long and has 2 set screws. If these are tightened, the inner axle will not turn. The inner axle has a male .16"dia. stud on one end and a slotted threaded smaller socket on the other end that a bolt could be threaded into. New and very precision made. Looks like a good item for Robot or custom machine designs.

**G13463 $2.49 ea.**

### 1.5VDC Mini Pager Motor Type

Tiny motor designed to produce the vibrating alert in many phones and pagers. This motor is perfect for making tiny beam robots as listed on the internet. Size of body only .65" L x .31" Dia. (excluding shaft). Shaft has a "D" shaped weight attached. Has flexible color coded leads for hookup. Brand new!

**G13531 99¢ ea.**
**2 / $1.49 • 100 / $60.00 • 1000 / $550.00**

### Miniature Pager Motor

Type 95R has a body that is 0.5" long x 0.24" dia. The shaft has a "D" shaped weight that provided a vibrating alert function for pagers. Operates from 1.5V to 3VDC and has a "snap on" (removable) mounting clip. Perfect for tiny robots, alerts, solar projects etc.

**G13135 $1.79 ea.**

### Miniature Open Frame Motor

Tiny open frame motor operates 1.5VDC to 9VDC. Size only 7/8" L x 11/16" W x 3/8" Thick. Shaft is .05" Dia. by .15" Long. Has solder eyelets for power hookup.

**G13484 $1.00 ea.**

### Powerful 6VDC Air Pump

Rolling type air pump precision made by OKEN SEIKO Co. This 2.4" L x 1" Dia. pump was made for fast inflation of a blood pressure cuff. It features a .16" dia. plastic nozzle which you can connect your air hose to. Has flexible wire leads. Runs on 3 VDC up to 12VDC. At 6VDC it requires about 280ma. These will have a foam noise reduction cushion surrounding the motor which can be simply removed if desired.

**G13253 $7.95 • 4 for $30.00**

### Powerful 24VDC Motor w/Optical Encoder

Made by Globe Motors this motor features a no load torque of .6oz in., a precision-ground hardened .156" Dia. x .5" L stainless steel shaft and high energy ceramic magnets. Each has a HP HEDS-5500 series dual channel encoder installed on the end of the motor. Overall size of motor is about 3" L (including encoder) x 1.58" Dia. made for robotic memory jukeboxes.

**G13320 $4.95 ea. • 10 for $35.00**

### DC High Power Motor For Battle Robots

Heavy duty precision made motor for applications that require a compact but powerful motor. This was made by Electro-Craft and is their model E543. The size of the motor only is 5 1/2"L x 2 1/4"Dia. The shaft is 9/16"L x .37"Dia. "D" type. At 12VDC the RPM is 1032 and the no load current is .200A. At 24VDC the RPM is 2100 and the no load current is .240A. At 36VDC the RPM is 3163 and the no load current is .260A. the shaft can't be stopped by hand at 24VDC and the loaded current is about 1.2Amp. Has removable brushes. Used-good condition.

**G13468 $24.95 ea.**

As above but with encoder (no data available) size of motor body is 6 1/4" - shaft at back extends 1/2" beyond encoder. Used-good condition, however we don't test the encoder.

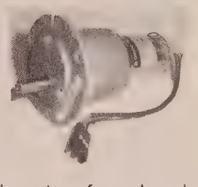
**G13367 $29.95 ea.**

### Mabuchi High Speed Powerful 6-20V Motor

Small 32.6mm (L) x 27.7mm (dia). motor by Mabuchi was designed for hair dryers, massagers corn poppers, etc. Features No load speed of 12,800 at 12V and 19,400r/min at 18V. Current draw at maximum efficiency .83Amp (12VDC) speed 10,410r/min torque 56.9 gcm. Stall current 3.6Amp (12V). Shaft is 15.6mm (L) x 2.3mm (dia). These have 4 diodes soldered to the terminals to allow operation from AC, however they can be simply cut off or unsoldered if you wish to use this motor on DC (to allow for shaft to spin in both directions). Brand new - Blowout price!

**G13249 $1.00 ea. • 10 for $8.00**

### Globe Motors DC Gearhead Motor



This heavy duty motor has a .38" Dia. x .72" L "D" shaft and although rated at 24VDC it can operate from 6VDC up to 40VDC. The shaft has such torque that its almost impossible to stop. Size of motor is about 4" Long (including gearhead). Diameter of gearhead is about 2" however it has a 2.75" mounting lip with mounting holes to facilitate firm mounting. Body of motor is about 1.57" Dia. Current requirement is about 100 to 200ma. Speed at 6VDC = 20RPM, 12VDC = 42RPM, 24V = 85RPM, 40VDC = 142RPM. These are used, good condition removed from large memory jukebox computer memory equipment which was disassembled.

**G13369 $25.95 ea. • 2 for $46.00**

### NTE R40-1102-12VDC DPDT Relay

Compact fully enclosed PC mount relay with 12VDC coil and 2amp DPDT contacts. Size .8"L x .38"W x .46"H. Prime in mfgr. box.

**G13443 $2.00 ea.**

### OEG 12VDC 10Amp SPDT Relay

Small sealed relay features SPDT 10amp@120VAC contacts. Type OUDH-SS-112D is .84" L x .65" W x .57". Has PC pins.

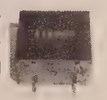
**G13481 $1.59 ea.**

### Sensitive Aromat NAIS 12VDC DPDT Miniature Relay

Type DS2E-M-DC12V features a fully enclosed case and 8 PC mount pins. Contacts are DPDT rated 2amp @ 30VDC or .6amp @125VAC. Yellow case is .79" L x .39" W x .39" H. Polarized 12VDC 350Ω coil requires only 34ma to operate. Prime factory part.

**G13506 $2.00**
**Factory Box of 50 for $80.00**

### Omron Compact 12VDC 10Amp Relay



Omron Part# G5LE-114P-PS is a SPDT relay with a 12VDC coil and 10Amp 250VAC contacts. Fully enclosed PC mounting type. Size .85"L x .61"W x .71"H.

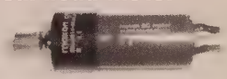
**G13380 $1.75 ea.**

### Omron 12VDC G5Y-1-H Relay

Compact relay is fully sealed and is only .8"L x .45"W x .35"H. Made for applications in microwave bands this relay features SPDT contacts and PC mounting. Prime.

**G13442 $1.00 ea.**

### Swiss Made Maxon DC Gearhead Motor



Very high torque gearhead motor operates from 6VDC up to 24VDC and features a .4" L x .31" Dia. gear. Size is about 2.2" (excluding gear) and Dia. is .94". Gear is pressed onto a "D" shaft. This motor has flexible wire leads. High torque - almost impossible to stop the gear at 12VDC and higher. Removed from equipment but is like new. Maxon Part# 2924.814-0020.0-000.

**G13329 $19.95 ea.**

### Our Largest 12V-99V 16lb. DC Motor

This behemoth yet efficient DC motor is rated 99VDC and was made by AMTEK for large reel to reel memory drives for mainframe computers. The new price on these was astronomical however we are selling them at a fraction of it. The size of the body is about 9"L x 4"Dia. The shaft is .65"Dia. and extends 2 1/8" out of the front and 3/4" out the back. There is no encoder on these and the front shaft has a 3/16" slot along most of its length. Has threaded holes on front for mounting a heavy cable for power input. We measured 300RPM at 12VDC with no load current of .81AMP. At 24VDC the RPM was 608 and the no load current was .93AMP. At 40VDC the RPM was 1031 and the no load current was 1amp. Loaded the current is about 1.8amps. Used good condition. Please include shipping for 16 lbs.

**G13464 $54.95 ea.**

### Zettler Sensitive 12VDC DPDT Relay

Compact 12VDC DPDT relay features 2 Amp 30VDC or 1 Amp 120 VAC contact rating. Fully enclosed case is 20mm (L) x 9.85mm (W) x 9.5mm (T) excluding pins. Coil resistance is 740 Ω. Made for PC board mounting. Zettler part #AZ830-2C-12DSE.

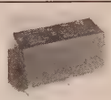
**G13280 $2.00 ea.**

### Omron Super Sensitive 12VDC DPDT Miniature Relay

Type G5V-2-H1 by Omron features 1amp @ 24VDC DPDT contacts and very low current requirement of only 12.5mA at 12 VDC. Coil resistance about 960Ω. Size about .79" L x .38" W x .43" H. With 8 pc. pins and fully enclosed case.

**G13127 $1.99 ea.**

### Omron Compact G6B-1114P-US 12VDC SPST Relay



Compact fully sealed SPST relay with contacts rated 5amp 250VAC. Size only .78" L x .38" W x .37" H. With solder pins for PC board mounting.

**G13564 $1.00 ea. • 100/$80.00**
**1000/$450.00**

### OEG OMI-SS-212D 12VDC DPDT Relay

Sealed compact 12VDC relay by OEG features 5amp@250VAC DPDT contacts. Size only 1.1" L x .49" W x .80" H. Has PC pins.

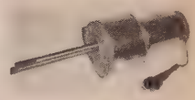
**G13482 $1.59 ea.**

### Bourns 50K Model 3266 12 Turn Cermet Trimming Potentiometer

Tiny 12 turn trimmer by Bourns is only 7mm x 6.8mm x 4.4mm and features PC mtg. with top adjustment slot. Rated .25watt at 70°. Low temperature coefficient of ± 100 PPM/°C. Model 3266W 503.

**G13410 $1.25 ea. • 100/$85.00**
**1000/$750.00**

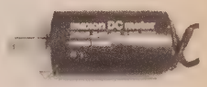
### Barber Colman DC Gearhead Motor



Heavy duty very high torque gearhead motor features operation from 6VDC up to 40VDC. Current requirements range from about 80ma up to 120ma. Motor body is about 3.8" Long (including gearhead). Dia. of gearhead is 2" and dia. of motor body is 1.45". Shaft has a "D" cut on end and is .25" dia. x 2.7" Long. Approximate speeds are at 6VDC 8RPM, 12VDC 12RPM, 24VDC 33RPM and 40VDC 57RPM. Label is marked 30VDC, so this is probably its optional voltage. These were removed from expensive large computer memory jukeboxes and they are in good condition.

**G13368 $24.95 ea. • 2 for $45.00**

### Swiss Made Maxon DC Motor



Compact ultra precision made motor features operation from 6VDC up to 24VDC. Size only 1.5" L x .89" Dia. (excluding shaft). Shaft is .08" Dia. with a .22" Dia. x .4" Long aluminum gear mounted to it. These appear new but have been removed from equipment. They have flexible color coded wire leads and threaded mounting holes on front. This is a very high quality motor designed for precision applications. Maxon Part# 2322.943-22.125-051N.

**G13323 $3.95 ea.**

### Globe Motors Heavy Duty 30VDC Motor with Encoder

Heavy duty motor removed from memory jukebox systems features a 3 5/16" L (including encoder) x 1.5" Dia. body. Has 5/8" L x .15" Dia. shaft with a .4" 18 tooth gear attached. Used, good condition. Operates from 9VDC up to 40VDC.

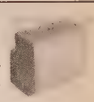
**G13580 $9.00 ea.**

### Potter & Brumfield R10-E1-Y4-V52 6VDC 3PDT Relay

Super relay by Potter & Brumfield features 3PDT 2amp @ 120VAC contacts. Has clear dust cover and is 1.16" tall x 1.12" L x .69" w. Has solder eyeletts.

**G13701 $3.95 ea.**

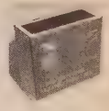
### 9VDC SPST Compact Relay



OEG Part# OJE-SS-109LMF features a 9VDC coil and 3amp 250VAC SPST contacts. Fully sealed PC mount relay is only .72" L x .40" W x .57" H.

**G13565 $1.00 ea. • 100/$85.00**
**1000/$500.00**

### Potter & Brumfield RKA-7D2-12 12VDC DPST Relay



Compact relay features a 12VDC 263Ω coil and DPST N.O. contacts rated 5Amp at 250VAC. Size of relay is 1.15" L x .5" W x .97" H. Fully enclosed type with PC pins.

**G13567 $1.25 ea. • 100/$95.00**
**1000/$650.00**

### Bourns 100K Model 3296 25 Turn Trimmer Potentiometer

Multiturn trimmer by Bourns is about 10mm x 10mm x 5mm and features PC mtg. with right angle adjustment slot. Rated .5 watt at 70°C. Tolerance ± 10%. Has end of rotation "click" mechanism. Brand new – High quality.

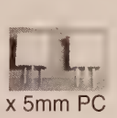
**G13577 $1.00 ea.**
**Factory tube of 50 for $39.00**

### Quad 50K Trimmer Potentiometer

Consists of four 50K vertical mount trimmer resistors with a common shaft. Each trimmer has 3 leads and is .39" square. Shaft is .5" long x .25" diameter for a knob if desired. PC board mounting type.

**G13126 $1.00 ea.**

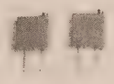
### Spectrol 25 Turn Linear Trimmer Potentiometers



Spectrol Type 64Z 25 turn 10mm x 10mm x 5mm PC mount precision trimmer potentiometer. These have the adjustment slot on the right angle edge (as opposed to the top). Brand new prime at a blowout price! We have 2 values each rated .5watt ± 10% tolerance.

**1KΩ G13452 $1.00 ea. • 100 for $75.00**
**10KΩ G13456 $1.00 ea. • 100 for $75.00**

### Bourns 25 Turn Cermet Trimming Potentiometers

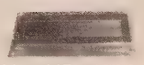


Multiturn trimmer by Bourns is about 10mm x 10mm x 5mm and features PC mtg. with top adjustment slot. Rated .5watt at 70°C. Tolerance is ± 10%. Has end of rotation "click" mechanism. Brand new prime. We have 2 values.

**Y102 1KΩ**
**G13405 $1.00 ea. • 100 for $75.00**

**Y103 10KΩ**
**G13408 $1.00 ea. • 100 for $75.00**

### LCD Display with Electronics



Brand new LCD display is mounted on a PC board about 3 1/8" L x 1 3/8" H. Has HD44780. IC on back of PC board and 14 gold plated pads for connection. Sorry no other information available.

**G13476 $1.99 ea.**

### SPDT PC Mount Slide Switch

Small PC mounting slide switch features SPDT contacts and white positive action slide lever. Size about .56" L x .25" W x .34" H (excluding lever). Pins are on .17" centers.

**G13372 10/$1.00 • 100/$8.00 1000/$49.00**

### Easy Mount SPDT Rocker Switch

This round flat black rocker switch mounts in any 5/8" hole in a panel by means of its locking nut. Contacts are rated 125VAC 10amps or 250VAC 6amps. Very nice precision rocker action.

**G13375 $1.00 ea. • 10/$5.00 • 100/$35.00**

### Push On/Push Off Switch Assortment

This is our greatest push on/push off switch assortment ever! You'll get various PC mounting types. All are brand new, prime! Package of 10.

**G13284 $2.00**

### Macro Lens Pulnix High Quality Camera

Small camera was mounted to the head assembly of a sophisticated memory jukebox. As the head assembly rotated and the robotic arm would extend to select and retract a memory cartridge, this camera would provide video information. We have no information on these except we know the size is about 2.5"L x 1.56" x 1.8". It has a DB9 connector on the back. We don't test them so we are selling them "As Is" only. Sorry, no returns.

**G13312 $14.95 ea.**

### Audio Taper Pot Assortment

These pots were used by A/D/S to make very high quality car audio products. All are audio taper and brand new. Sorry, no hardware available. Special purchase - Blowout price. Package of 8.

**G13276 $2.00**

### Bourns Mod Pots

Sealed case square pots are found in many types for electronic equipment. These are brand new panel mtg. 3/8" bushing types with 1/2" Long 1/4" diameter shafts for knobs. Complete with panel mounting nut.

| | | | |
|---|---|---|---|
| 81A1DB28A13 | 5K | G13522 | $1.49 |
| 81A1DB28A25 | 1 MEG | G13524 | $1.49 |
| 81A1DB28A27A27 | 5MEG (dual) | G13526 | $2.00 |

### Dual 50K Audio Pot

High quality dual 50K pot used by one of the top audio manufacturers. Features standard 3/8" panel mount bushing with a 1/4" dia. x 1/2" long shaft case size: 0.67" W x 0.82" T x 0.43" D. Prime audio taper pot comes with mounting nut.

**G13283 2/$1.00 • 10/$4.00 • 100/$35.00**

### Dual 10K Audio Pot

This dual 10K pot was being used by one of the top audio manufacturers. Features standard 3/8" panel mount bushing with a 1/4" dia. x 1/2" long shaft. Case size: 0.67" W x 0.82" T x 0.43" D. Prime audio taper pot comes with mounting nut.

**G13285 3/$1.00 • 100/$25.00 • 1000/$200.00**

### Dual 10K Audio Taper Potentiometer

These came from an audio equipment manufacturer making high end systems. Standard 3/8" panel mount bushing dual potentiometer features 1/4" dia. x 1/2" long shaft to mount your knob. Size of pot (excluding shaft) is 0.62" W x 0.70" T x 0.60" D. High quality audio taper dual 10K pot made by PIHER. Brand new with mounting nut.

**G13281 2/$1.00**
**100/$40.00 • 1000/$250.00**

### Rare Large Wirewound Linear Potentiometers

These are perfect for replacement in all types of older radios, test equipment, amplifiers, etc. They are becoming difficult to find and are typically sold for around $10 each. We have the following 1 11/16" dia. x 3/4" thick. Each has a standard 3/8" dia. panel mount bushing and a 1/4" dia. x 3/8" long shaft for your knob. New – supplied with mounting nut. Make precise adjustments with these large metal case wirewound potentiometers.

| | |
|---|---|
| 300Ω | G13517* |
| 500Ω | G13519 |
| 3K | G13521 |
| 20K | G13523 |
| 25K | G13525 |

**Your Choice $5.00 ea.**

*** This pot is 7/8" Thick instead of 3/4"**

### Large Heads Up Display Glass

Large piece of glass has a special surface coating on one side which allowed it to function as part of a "heads up" display system. This piece is a trapezoid approximately 6 3/4" at the base and 9 1/2" at the top with 2 equal sides 8 3/4" high. When held at and angle the glass can efficiently reflect a "reversed image" to you while at the same time you can look through the glass at your surroundings. These types of display systems are used extensively in military aircraft, helicopters, etc. Obviously the image from a CRT or numeric display is electronically reversed before its reflected onto the glass surface in these applications so that the view is correct. These will also divide the beam of a laser pointer into 2 spots. These are brand new but may have slight blemishes. Coated glass only as described above (not a complete heads up system).

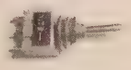
**G13586 $9.95 ea.**

### Miniature DPDT Toggle Switch

Attractive miniature toggle switch features unique black metal handle, center off position and DPDT contacts rated 6Amp 125VAC. Complete with all panel mtg. hardware. Mounts in a 1/4" hole. Size of switch body is only .5" square. Brand new made in U.S.A.

**G13305 $2.49 ea.**

### Center Off SPDT Miniature Toggle Switch



Miniature toggles switch type MTS-1 features SPDT 6A 125VAC contacts. This switch has panel mounting hardware and mounts in a .23" hole. With chrome bat lever. Has center off position.

**G13117 $1.35 ea.**

### TI High Quality Macro Lens Camera

Made for large computer memory jukebox rooms, this camera was mounted on the end of the robot gripper assembly. It provided a video picture of the cartridge that was selected by the operator. We have no specs or data on these but we do know that they have a DB-9 connector, a macro lens and the size is about 2.7" x 2.8" x 1.9". Since the entire insides of the memory jukebox rooms were removed, we are not sure of the condition of these but they probably were working when they removed them! Sold "as is" only.

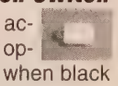
**G13315 $15.95 ea.**

### ALCO Locking DPDT Toggle Switch

Miniature DPDT switch, features a toggle handle which locks in either position until you pull on it to release. Contacts are rated 6amps@125VAC. Mounts in a .25" hole with included hardware. Prime individually bagged. ALCO# MTL 206N.

**G13498 $1.99 ea. • 100 for $150.00**

### World's Smallest? SMD Pushbutton Switch



Tiny pushbutton SMD mounting switch actually clicks to give positive indication of operation. Has SPDT contacts that close when black pushbutton is pressed. As soon as button is released the contacts open (momentary operation). Size only .23" L x .17" W x .07" Thick (size excludes tiny black pushbutton). New on tape and reel.

**G13518 4/$1.00 • 100/$10.00 1000/$90.00**

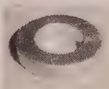
### Popular Magnet Wire

These are 2 of our popular sized magnet wires. Each reel is brand new and consists of pure copper wire with standard enamel insulation coating. Hurry as these always sell fast!

**31ga 6 lb. reel Value $132.00**
**G14001 $40.00**

**26ga 9 lb. reel Value $171.00**
**G13228 $55.00**

### Ring Shaped Neodymium Super Magnet



Powerful 11/16" Dia. x 1/8" Thick super magnet has tremendous holding power. Easily holds a stack of 20 pages to a metal surface (try that with a refrigerator magnet). The magnet is nickel plated and has a 3/8" inside hole. With the inside hole you can stack these on a wood dowel or pencil and because of the power of these they will appear to "float" about 1 1/4" apart from each other.

**G13480 2/$1.00**

### Giant Super Magnet

Neodymium rare earth super magnet is so powerful, it's very difficult to remove when attached to a metal surface! Size is 2" L x 1 3/16" W x 3/16" Thick. It has white paint covering the entire surface but the paint may have scratches on it from shipping and storage. One of the most powerful super magnets we have ever offered!

**G13477 $2.00 ea. • 10 for $18.00**

### 4" Round Silicon Solar Cell with Tabs

These nice 4" single crystal cells already have tabs attached to make the job of constructing panels very easy. They have flat sides as shown and put out about 1.2 Amp short circuit current and 0.5V open circuit voltage. Connect in series to add voltage or parallel to increase current. We have a limited quantity of this powerful solar cell. Great for collecting free power from the sun.

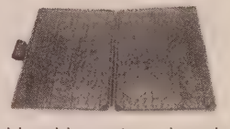
**G13164 $5.95 ea.**

### Square Silicon Powerful Solar Cell 800ma 0.5V

These are easy to solder to high efficient silicon solar cells that are 2.5" square. This square shape enables you to make much more compact high power panels (connect cells in series for higher voltage or parallel for higher current). These put out 800ma short circuit current and 0.5 volt open circuit voltage. These are single crystal types which are much easier to use than the polycrystalline types. We are selling them at a blowout price because they have partially missing fine grid lines (does not effect rated output). Hurry these will sell fast!

**G13153 $3.95 ea.**

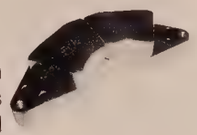
### Compact High Power Solar Panel



Compact folding type solar panel with polycrystalline silicon solar cells puts out an incredible 22volts open circuit voltage and .9amps short circuit current. These fold on hinges to a closed size of 9" x 13" x .8". The size open is about 18" x 13". Rugged yet lightweight-perfect for portable use when a higher power is needed. These feature female banana jacks (built in) for power takeoff and "hook & loop" latch. These look new but may have a few slight scratches on the outer case from bulk packaging. Flat black case color. Weighs only 1.76 lbs.

**G13473 $179.99 ea.**

### Our Most Powerful Supermagnet Assembly



Giant Neodymium rare earth supermagnet assembly features a heavy crescent shaped chrome plated 3 3/4" L x 1 1/2" H x 7/16" Thick piece of metal with two 1 3/8" L x 15/16" W x 3/8" Thick super magnets glued to it. The magnet side has incredible lifting power and cannot be removed from large metal objects by pulling directly away–it must be "slid" off. Features 6 handy holes to attach cables so you can drag it on lake bottoms to grab metallic treasures or pick up metal objects from the bottom of a pit, etc. New surplus. Weighs about 3/4lb.

**G13502 $6.95 ea.**

### Labtec Contact-301 Hands-Free Headset for Cellular Phones

Brand new high quality headset by Labtec features adapters to allow it to be used with Nokia 3190, 3390, 8290, all 51XX series and all 61XX series, Ericsson 500, 600 and 700 series plus almost all current models of Audiovox, AT&T, Motorola, Sony, Toshiba, etc., that have 2.5mm (standard) headset jacks. We tried one with a tiny Motorola V phone and it worked perfectly. Features ergonomically curved, discreet design for long-lasting comfort. Stays securely in position. Has convenient "talk/end" button (not supported by all phones) and shirt clip-on cord. These are brand new in factory sealed Labtec retail package with full factory warranty!

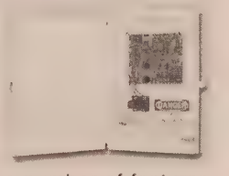
**G13461 $6.95 ea.**

### Labtec Icon-750 Special Edition Stereo Headphones and Free FM Radio

These are one of the nicest high quality stereo headsets available. They are current product advertised on the WEB at up to $25 and more for the headphones alone. They feature digital design-ideal for MP3, DVD and MD. Headphones are light weight, with comfortable ear cushions, have and acoustic air vent for enhanced bass, and have a self-adjusting headband for superb comfort. Complete specs are as follows: Driver 40mm, Impedance 32Ω, sensitivity 102 dB/mW, magnet neodymium, cord length 4 ft., plugs-gold plated stereo 3.5mm and gold plated 1/4" stereo adapter plug. Packed inside the blister package with these headphones as a free bonus is a small lightweight, attractive 3 1/8" x 1 5/8" x 9/16" thin FM auto Scan Radio by Labtec. It features a Led power indicator, excellent sensitivity, tremendous sound and a handy clip for attaching it to your clothing when you jog or go to the gym, etc. Requires 2 AAA batteries (not included). The stereo headphones and the radio are brand new and in a factory sealed heavy duty attractive retail blister package. The headphones come with a full 1 year warranty from Labtec. Hurry as this is one of our best offers ever. Remember you are getting the high quality Labtec Icon-750 stereo headphones and a free FM radio. Buy several for gifts at this blowout price!

**G13112 $12.95 ea. • 2/$25.00 • 5/$60.00**

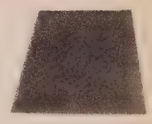
### AeroVironment Inc. AV SPC-2000 Solar Pump Controller (DC-AC inverter) for 1.5HP (1100watt) Single Phase or 2.5HP (2000watt) Three Phase Motors



The SPC-2000 is capable of controlling 115, 208 or 230VAC single or three phase motors. It continuously monitors system performance and incorporates a number of features for pump system protection including LEDs to indicate type of fault. It consists of a heavy duty 18 1/4" L x 12" W x 4 1/8" D (excluding the attached massive heat sink) metal cabinet with internal plastic protection cover. These are rated 13amp peak current and 9.5amp RMS current with a min. speed of 30HZ and a max speed of 69HZ. It has underload auto shutoff (dry pump/well, decoupled pump and motor), overload auto shutoff (fouled pump or motor, electrical short, bad motor) and auto shutoff for full reservoir. Input voltage 150VDC up to max of 600VDC. Current input maximum = 8Amps. These are new with installation operation manual but they have been in storage for years so the warranty no longer applies. We were told that these sold for over $1000 ea. Please include shipping for 23 lbs. We are sorry but except for the above information we have no knowledge of the application and use of this–you must determine it from the manual that comes with it!

**G13483 $149.00 ea.**

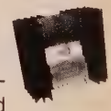
### 5" x 6" Glass Solar Panel 7.5VDC 170ma



Amorphous silicon resin glass solar panel comes with "copper tape pad" to simplify connecting your hookup leads to it. These are brand new and capable of charging 6V batteries, powering small electronic devices etc. Complete with simple directions for soldering your leads onto pads. Brand new. One of the lowest priced useful solar panels available! Use 2 in series for 12VDC applications.

**G13151 $5.95 ea. • 2 for $11.00**

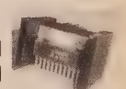
### L298 Dual Full-Bridge Driver For Stepper Motors



The L298 is an integrated monolithic circuit in a 15 lead Multiwatt package. Its used in many stepper motor driver circuits but it can also be used for all types of inductive loads including relays, solenoids, DC motors, etc. It features high voltage high current outputs and is designed to accept standard TTL logic levels. Max power supply voltage is 50V. Peak output current for each channel is 3Amps. This is a brand new fully marked unit mounted to a heat sink (you can simply remove it by removing the bolt and nut). Complete with full spec sheet. These are worth over $5 each.

**G13491 $1.99 ea.**

### A3951SW Servo Driver IC



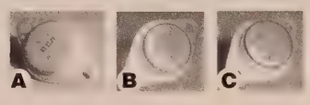
The 3951 is a 12 lead Full-Bridge PWM Motor Driver designed for bidirectional pulse-width modulated current control of inductive loads. Rated 50V load supply voltage and load current of ± 2.0Amp, L=3mH. Features internal PWM current control, internal transient suppression diodes and internal thermal shutdown circuitry. These are brand new, fully marked mounted on a heavy duty heat sink.

**G13573 $2.95 ea.**

### High Power T03 Metal Case Transistors

Factory prime fully marked T03 case transistors by top names such as RCA, Motorola, TI, and Central. Check out our blowout pricing on these!

| Part # | Figure | Stock # | Price |
|---|---|---|---|
| 2N3771 | A | G13298 | $1.00 ea. |
| 2N6283 | B | G13299 | $1.00 ea. |
| TIPL753A | C | G13300 | $1.00 ea. |



### MPSH10 VHF/UHF RF Transistor

This popular transistor is used in many RF VHF/UHF circuits. T092 case NPN type with trimmed leads as shown. Prime-fully marked. Made by Motorola.

**G13172 8/$1.00**

**100 for $10.00 • 1000 for $80.00**

### Comparator/Op Amp Blowout

Super price on these factory prime fully marked ICs. Hurry as these won't last long at this price!

| | | |
|---|---|---|
| LM324 | G13290 | 5/$1.00 |
| LM339 | G13291 | 5/$1.00 |
| LM347 | G13292 | 5/$1.00 |
| LM393 | G13293 | 5/$1.00 |

### 6N139 Opto Isolator

Designed for low power logic applications involving CMOS and low power TTL. Standard 8 pin dip package contains IR LED and photo darlington - Requires 5.0V for emitter. Brand new - Prime.

**G13262 5/$1.00**

### Opto Isolators

Standard 6 pin dip Opto Isolators. All prime and marked. Hurry - quantities limited on some.

| Part# | Stock# | Price |
|---|---|---|
| 4N26 | G7629 | $0.49 |
| 4N33 | G13385 | 5/$1.00 |
| 4N35 | G4081 | 3/$1.00 |
| 4N38 | G4369 | 3/$1.00 |
| H11D3 | G13392 | 4/$1.00 |
| LTV814* | G7627 | 4/$1.00 |
| MCT2 | G13005 | 3/$1.00 |
| MCT2E | G13006 | 2/$1.00 |
| MCT5211 | G6060 | 3/$1.00 |
| MOC3042 | G13399 | 2/$1.00 |
| MOC3063 | G13400 | 2/$1.00 |
| SF600-2 | G6061 | 3/$1.00 |

*Has 4 Leads

### High Speed Hobby Drill

Brand new high quality drill/grinder. This is one of the nicest handheld high speed drills that we have seen. We were amazed by the overall quality and performance of this drill. Plugs directly into 120VAC and can be used for hundreds of heavy duty jobs. Features adjustable speed control, a fully adjustable chuck, rigid carrying case with internal accessory compartment and handling instructions. Included with this drill are various grinding stones and disks, sanding drums, router tips and drill bits as well as two replacement brushes for the motor. This is a very nice unit comparable to other drills costing more than twice as much!

**G13331 $29.95 ea.**

### Hobby Minisaw Set

Handy set of 2 plastic handle mini saws with sharp cutting teeth steel blades. Great for cutting plastic soft woods and soft metals (such as aluminum). These are in a retail package and are meant to be disposable after use. Size of handles about 4". Blade on long saw is 2 1/2" and short saw is 1 1/2" long.

**G13409 $1.49**

### Adjustable 1.2VDC to 37VDC IC Voltage Regulator

We just purchased thousands of these prime 1Amp voltage regulators made by ST. Each is in the standard T0-220 plastic case with leads formed at a right angle for PC board mount. Prime fully marked perfect units.

**LM317T Positive 1.2V-37V Regulator**
**G13451 4/$1.00**

**LM337SP Negative 1.2V-37V Regulator**
**G13455 4/$1.00**

### KBL005 50V 4Amp Bridge Rectifier

In-line bridge rectifier made by General Instruments is rated 50V at 4Amps. Has 4 long leads.

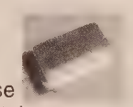
**G13450 2/$1.00**

### Sony Tiny Precision Crystals

We have 2 values of these tiny crystals. Each is fully marked. Size about .42" L x .18" W x .13" H. Has long leads on tape and reel.

**G13554 10MHZ (10AKSS2AT) 69¢ ea.**
**G13560 20MHZ (20AKSS2CT) 69¢ ea.**

### 50.000000MHZ Precision Crystal Oscillator



We made a special purchase of these 100% prime 50.000000MHZ 5VDC metal case crystal controlled oscillators made by Fox. Brand-new fully marked requires only + 5VDC and ground to operate. Has 4 pins which may be slightly bent from being shipped in bulk to us (it only takes a couple of seconds to straighten them out). Blowout price!

**G13110 4/$1.00**

### VP0106N3 P-Channel Enhancement-Mode Vertical DMOS FETS

Popular T092 FET by Supertex Inc. features -60V $BV_{DSS}$/$BV_{DGS}$ and .5amp $I_D$ (on). These are used in many motor controls, amplifiers, switches, power supplies, converters and drivers. Brand new fully marked.

**G13509 3/$1.00**

**100/$25.00 • 1000/$190.00**

### BT1690 T092 Thyristor (Logic Level)

Popular T092 plastic case logic level thyristor is rated 400V @ .8amp. Sensitive gate type with a typical gate trigger current of 50µA. Prime-fully marked-long leads.

**G13313 10/$1.00 • 100 for $8.00**
**1000 for $75.00**

### Motorized Diamond Tip Engraving Tool

This small portable engraving tool actually does a good job in engraving whatever you wish onto tools, equipment, ceramics, glass, metal objects, name plates, etc. to help prevent loss. Operates on 2 AA batteries (included) and comes with 1 extra engraving tip. Size about 5 1/2" Long. Brand new in retail card.

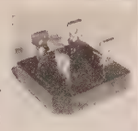
**G13381 $4.95 ea.**

### Universal Phone Cable Crimp Tool Kit

Handy tool repairs all telephone handset cord plugs and telephone line cord plugs. Tool cuts off old plug and automatically crimps on new plug with a simple squeeze of tool. Make new cords or repair old cords. Comes with 6 handset plugs and 6 line cord plugs. Brand new in retail package by Leviton.

**G13558 $5.95 ea.**

### GBPC1206 600V 12Amp Bridge Rectifier



High current, high voltage rectifier with terminal lugs made by GI is 1.12"sq. x .30" high (excluding terminals). Has .20" hole in center for mounting.

**G13568 $1.00 ea.**

### OSRAM Q62702-P1829 SMD SI-PIN Photodiode

Super sensitive photodiode by OSRAM features sensitivity in the wavelength range of 830nm to 880nm, 20ns switching time and .65 A/W spectral sensitivity. SMD BPW 34FS Reverse Gullwing Case. Radiant sensitive area in $mm^2$ is 2.65 x 2.65. Has built in filter to reduce daylight effects. Suitable for IR-remote control applications, TV, VCR, photointerrupters, etc. Prime on tape and reel.

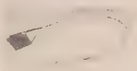
**G12918 4/$1.00 • 100/$22.00**
**Full Reel of 1000/$185.00**

### Large Photo Diode Optical Sensor

Type S1223-01 by Vactec features gold plated leads and a T05 size metal case with a top window. Sorry we do not have any specs or info, but these are prime new units. Output in sunlight is .56V. Size of the active area is about .17" sq.

**G13585 $1.00 ea. • 100 for $90.00**
**1000 for $650.00**

### Large Area Sensitive Photo Diode Sensor



Large semiconductor photo diode sensor is .42" sq. x .07" thick and features 6" long flexible insulated black and red leads. Output in sunlight is .5V open circuit voltage and 8mA short circuit current.

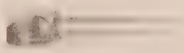
**G13556 $1.00 ea. • 10 for $8.00**
**100 for $75.00 • 1000 for $500.00**

### NEC PH302 Photodiode

Prime photo detector is perfect for thousands of IR applications. Features 7.2mm (W) x 7.90mm (T) x 2.9mm (D) molded plastic case with full length leads. Peak sensitivity is 940nm. Brand new.

**W22014 5/99¢**

### Powerful 5MM IR LED



Pale see-thru grey case 5mm (T1 3/4) IR LED with full length leads. Operates from 2.8VDC.

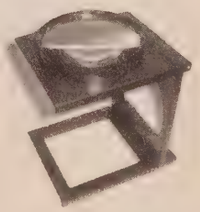
**G13661 5/$1.00**

### Set Screw Lever Knob

Black bakelight knob features set screw for mounting to any standard 1/4" dia. shaft. Lever type knob as found in older test equipment. New.

**G13504 $2.00 ea.**

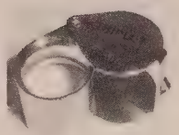
### Foldable Table Top Magnifier



Great for working on hobbies, building kits, sorting parts, etc! This giant 2x magnifier glass magnifier sits in a sturdy black plastic stand. Overall size of the magnifying glass is 4" in dia. Stand is about 7 1/2" tall x 5 1/4" square. Base has "mm" and "inches" marked on the surface. Brand new in retail box.

**G13370 $4.99 ea.**

### Large 10X Power Loupe



Powerful 10X glass optics loupe features chrome plated case. Very nice item - you won't believe how useful this is when looking at tiny SMD parts. Loupe retracts into protective metal cover so you can put it in your pocket. Size about 3/4" dia. lens and about 1 1/4"L x 7/8"H metal case. Brand new in protective plastic box.

**G13373 $3.95 ea.**

### Router Bit Blowout

Solid tungsten ultra sharp router bits for PC boards. These are used but have plenty of life left in them. Most have a small plastic collar but some may not. We saw at least 2 sizes .088" and .063" (but there may be more). Great for making custom shapes and holes in glass epoxy PC boards!

**G13259 8 for $2.00**

### I Vogel's® Satellite 5 Universal Speaker Mount

Consists of 2 heavy duty attractive swivel type speaker mounts. Great for mounting almost any speaker cabinet (11 lbs. or less) to a wall or ceiling. Comes complete with all hardware including hollow wall (drywall) anchors and screws. Brand new. You get 2 mounts in the box.

**G13116 (Black) $8.95**
**G13120 (White) $8.95**

### Remtek CFR-125 1/4" Black Thin Wall Heat Shrink

Flexible polyolefin heat shrink by Remtek shrinks at a 2 to 1 ratio. UL 224 125°C 150V rated.

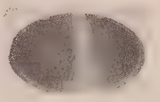
**G13516 4 ft. piece $1.00 • 20 ft./$4.00**

### Insultab Insul-Grip® HS-205 5/8" Black Heat Shrink

Solid black glossy PVC heat shrink is 5/8" diameter with a thicker than usual wall for better durability. Shrink ratio is 2:1 and meets UL/CSA specs. Rated 600V 105°C VW-1 CSA/OFT.

**G13520 4 ft. piece $1.00 • 20 ft./$5.00**
**250 ft. Reel $50.00**

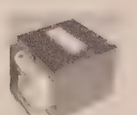
### Large Silicon IC Wafers



These beautiful processed wafers with IC dies on them are always a popular item that we sell out fast. These are fascinating to study under a magnifying glass or microscope. Great for science projects, classroom study, IC training classes or as an art object to frame and put on your wall.

**G13303 5" diameter $6.00 ea.**

### Signal Printed Circuit Power Transformer



Compact yet powerful PC mounting transformer type DPC-12-2000 by Signal features dual primary (so it can be used on 115VAC or 230VAC) and dual secondaries. Secondaries can be configured for two 6.3VAC @ 2amp, 12.6VCT @ 2amp or one 6.3V @ 4.0amp. Size 1.62" L x 2.25" W x 1.37" H. Brand new. Weighs 12oz.

**G13510 $2.49 ea.**
**10 for $22.00 (send extra for shipping)**

### 2" Dia. Hand Held Magnifying Glass

Nice quality 2" diameter glass magnifier lens in an attractive black plastic handle. Optical power is 6x. Brand new in retail packaging.

**G13268 $1.29 ea.**

### "Snap in" Rubber Feet

Small black rubber feet for equipment is .5" diameter by .15" thick (excluding hold in top piece). I easily presses into a .25" hole where it is held captive by the top piece unless you pull it out.

**G13326 8 for $1.00**
**100 for $10.00 • 1000 for $75.00**

### "Snap in" Chrome Hole Plug

Made to plug holes in metal chassis, this metal hole cover snaps into a .2" hole and stays flush unless you pry it off with a knife. Handy item to have in your parts cabinet.

**G13319 20/$1.00**

### Ultra Precision 0.1% Super High Value Resistors

These special high ohm precision resistors have a tolerance of 0.1% (not 1% but 0.1%). They can be used to calibrate equipment or make precision voltage dividers and are used in making high voltage oscilloscope Probes. We have the following values. Each is prime and marked. Made by EBG, Hy-Meg, Vishay, etc., and each is worth many times our price. Hurry every time we have 0.1% resistors they sell quickly. Size of body .52"L x .13"Dia. (excluding leads).

**11 Megohm G13447 2/$1.00 • 100/$40.00**
**99 Megohm G13448 2/$1.10 • 100/$45.00**
**100 Megohm G13449 2/$1.25 • 100/$50.00**

### Tiny SMD IR Optical Transmitter/Sensor

Consists of a small IR LED and small IR sensor with specs matched to each other. Each device faces outwards. The 4 lead device is simple to use. Power the IR LED with a pulsing circuitry and as an object comes within the range of the IR sensor, the pulsing IR signal will be reflected back into the IR sensor (so you can detect the object). Sorry no info available. Brand new prime-size .158" L x .12" W x .067" Thick.

**G13145 $1.00 ea.**
**10 for $8.00 • 100 for $65.00**

### RCA Universal DVD, TV, VCR, Cable Box Remote

Small universal remote replaces 3 remotes. Has codes for most DVD players, TVs and VCRs. Controls one VCR or one DVD player, your TV, and your cable box. Operates on 2 AAA batteries (not included). Small size (only 5 1/2" L x 2" W). Brand new in sealed retail package.

**G13485 $7.99 ea.**

### Proteus Industries Fluid Flow Switch

Heavy duty precision made fluid flow switch features operation from 120VA and SPDT contacts. Type 0100 B110 comes with long 3 conductor line cord and 2ft. long relay output cable. Fluid is brought in and out of switch by your hoses (it has 2 threaded female .5" connectors). See the Proteus website for complete info. Brand new but no other data supplied. Worth over $100.

**G13459 $24.95 ea.**

### 28 Piece Electrical Clip Kit

With this handy assortment of clips you'll be sure to have the right one for your application. Has (6) 2" alligator clips, (6) 1 1/2" alligator clips, (10) mini alligator clips, (2) 30amp charging clips (with jaw large enough to go on a car battery terminal), (2) 25amp charging clips and (2) 10 amp charging clips. Most have red and black insulating boots except the 10 mini alligator clips. Brand new in sealed retail package.

**G13246 $4.95**

### Universal Banana to Probe Test Lead Set

Nice quality flexible test lead set consists on one red and one black 36" long test lead. Each test lead has a standard banana plug with long rubber insulator (that can be trimmed with a razor blade to match your particular meter) on one end and a sharp pointed insulated handle probe on the other end. These are brand new & UL listed. Factory bagged.

**G13495 $2.95 per set**

### Low Voltage Zener Diodes

Prime fully marked Zener diodes rated .5Watt. Each has full length leads.



| | | | |
|---|---|---|---|
| **IN5225B** | **3.0V** | **G13454** | **10/$1.00** |
| **IN5227B** | **3.6V** | **G13476** | **10/$1.00** |
| **IN5231B** | **5.1V** | **G13459** | **10/$1.00** |

### 50 ft. Adapter Extension Cable

Flexible black & white cable extends any power adapter with 5.5mm barrel plug (center 2.5mm) up to 50 ft. away. On one end is a female 5.5mm barrel jack and the other end has a male 5.5mm barrel plug. Just plug your existing adapter cord into the extension cord and it will extend it up to 50 ft. away.

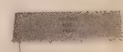
**G13132 $1.79 ea.**

### Power Entry Module

Standard power entry module as found on many computers and test equipment. Type 01GEEW3E by Delta is rated 115/250VAC 50/60HZ 1amp. Features EMI filter.

**G13411 $1.49 ea.**

### 100Meg High Voltage Divider for Geiger Counters



Made by Victoreen this 2.7" L x .76" H x .06" Thick resistor divider has taps for 25K, 50Meg, 100Meg & 100.1 Meg. Tolerance is ± 5%/ Brand new with PC leads. Blue sealed case.

**G13493 $1.00 ea.**

### High Voltage Gas Flame Igniter

High voltage Harper Wyman KOOL-LITE® Flame igniter units. These were designed to ignite gas flames in furnaces and gas cook stoves. The units are designed to operate from 120VAC 60HZ. On the web you will discover a website that has a schematic of one of these and gives information on using the transformer inside these to trigger a laser. We don't supply any info on this and we caution that you should use extreme caution when working with this or any other high voltage supply. New - We are selling them for their original application for repair or replacement - not for any other use.

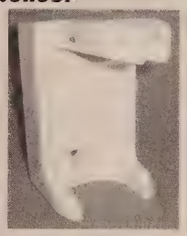
**P/N 6542 4.66" x 2.8" x 1.53"**
**G13470 $4.95 ea.**

### Handy RS232 DB25 Male to Female Jumper Box

This is one of the most useful items to have when working with RS232 parallel ports. Consists of a small box with a male DB25, a female DB25 connector and a PC board. Each pin that you desire of the male connector can be soldered to the female by using the included pre tinned jumpers. The pc board even has pads to mount. LEDS (not included) if you wish. Box is about 2.5" x 2" x .67". Attractive box can be snapped together after your jumpers have been installed. Brand new. Retail package. Worth $10.00.

**G13235 $4.95**

### Baxter Automatic Soap Dispenser



This brand new dispenser features a powerful 6VDC air pump, an IR activated automatic hand sensor circuit board, a miniature solenoid and 4 "D" size battery holders. These are brand new, however they are missing the "special soap bottle" so we are selling them at a fraction of their original cost. Tear them apart for the air pump and sensor or find some way to make the "special soap bottle". Size about 7 3/4" Tall x 71/2" L x 4 1/2" W.

**G13190 $19.95 ea.**

### Air Bladders

These are small air bladders that were made to go inside blood pressure cuffs. If you connect a hose between one of these and the above pump they can be inflated in seconds. These are handy for making diving and surfacing robots or various strange air operated lifts. The tiny one is about 4 7/8" x 2 3/8" (deflated) and the larger one is 8 7/8" x 4 13/16" (deflated). The tiny one has one extra input hole which must be plugged before inflating.

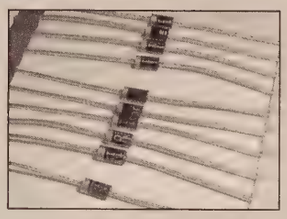
**Tiny G13242 $1.49 ea.**
**Larger G13245 $2.00 ea.**



## Rectifier Diodes



| | | | | |
|---|---|---|---|---|
| IN4001 | 50V | 1A | G1301 | 25/1.00 |
| IN4002 | 100V | 1A | G9345 | 20/1.00 |
| IN4003 | 200V | 1A | G9346 | 18/1.00 |
| IN4004 | 400V | 1A | G9347 | 15/1.00 |
| IN4005 | 600V | 1A | G9348 | 10/1.00 |
| IN4007 | 1000V | 1A | G9349 | 5/1.00 |
| IN5400 | 50V | 3A | G1024 | 8/1.00 |
| IN5406 | 600V | 3A | G9834 | 4/1.00 |
| MR756 | 600V | 6A | G4474 | 4/1.00 |

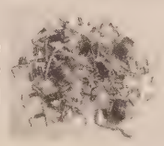


### Handy 1AMP Rectifier Assortment

You get 2 each of IN4001, IN4002, IN4003, IN4004, IN4005 and IN4007. (50V, 100V, 200V, 400V, 600V, and 1000V) all marked and with full length leads. Each package has 2 of each value (12 diodes total).

**G4052 $1.00**

### PC Lead Diodes



Various types and sizes of prime diodes. You'll find zeners, heavy duty rectifiers and small signal diodes. All with cut and formed PC leads.

**G5077 50/$1.00**

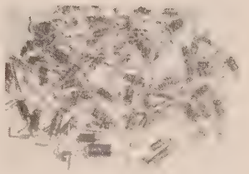
### 1SS98 UHF Diode



Small glass diode used in many shortwave radio projects. This UHF diode is prime, color coded with long leads.

**G13004 5/$1.00 • Factory Bag of 400/$40.00**

### Super Diode Assortment



Assortment containing over 200 pcs of prime diodes including small signal glass types, rectifiers, zeners, etc. Most are house numbered and many have had their leads cut and formed for PC board mounting. All are 100% prime brand new-not rejects!

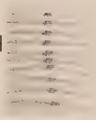
**G4006 Bag of over 200 Diodes $2.00**

### Zener Assortment

Great assortment of 10 various zener diodes.

**G5394 $2.00**

### Prime Small Signal IN914B Diodes



These are prime fully marked long lead diodes on tape and reel.

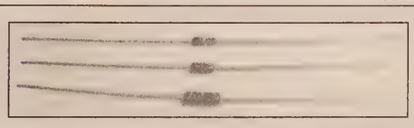
**G12760 25/$1.00 • 100/$3.00**

## Zener & Rectifier Diodes



| | | | |
|---|---|---|---|
| 1N473A | – | G4132 | 10/$1.00 |
| 1N747A | 3.6V 400mw Zener | G4133 | 10/$1.00 |
| 1N750A | 4.7V 400mw Zener | G4134 | 10/$1.00 |
| 1N751A | 5.1V 400mw Zener | G4135 | 10/$1.00 |
| 1N752A | 5.6V | G2135 | 5/$1.00 |
| 1N756A | 8.2V 400mw Zener | G4136 | 10/$1.00 |
| 1N758A | 10.0V 400mw Zener | G4137 | 10/$1.00 |
| 1N823A | 6.2V 400mw Zener | G4138 | 10/$1.00 |
| 1N3070 | – | G4139 | 10/$1.00 |
| 1N4150 | – | G4140 | 10/$1.00 |
| 1N4402 | – | G4141 | 10/$1.00 |
| 1N4448C | – | G4142 | 10/$1.00 |
| 1N4454 | – | G4143 | 10/$1.00 |
| 1N4743 | 13V | G2137 | 5/$1.00 |

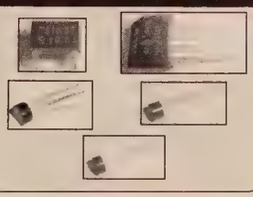
| | | | |
|---|---|---|---|
| 1N4757A | 51.0V 1w Zener | G4148 | 10/$1.00 |
| 1N5235B | 6.8V | G2139 | 5/$1.00 |
| 1N5239 | 9.1V | G2140 | 5/$1.00 |
| 1N5240B | 10V | G2141 | 5/$1.00 |
| 1N5242B | 12.0V 500mw Zener | G4153 | 10/$1.00 |
| 1N5246B | 16.0V 500mw Zener | G4155 | 10/$1.00 |
| 1N5247B | 17.0V 500mw Zener | G4156 | 10/$1.00 |
| 1N5559B | 6.8V | G2142 | 5/$1.00 |
| 1N6263 | – | G4157 | 10/$1.00 |



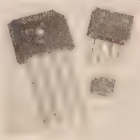
## Bridge Rectifiers



| | | | | | |
|---|---|---|---|---|---|
| WL06 | TO5P | 1.5A | 600V | G1113 | $1.00 |
| W2530 | TO5P | – | – | G8740 | 3/$1.00 |
| S1WB | 4Pin Mini Dip | 1A | 50V | G4446 | 4/$1.00 |
| BR8O5D | Inline Plastic | 2A | 50V | G4054 | 4/$1.00 |
| FPIL60 | 1.12" Square | 40A | 600V | G4589 | $2.49 |



### Bridge Rectifier Assortment



Handy assortment of 3 different bridge rectifiers. Various current and voltage ratings.

**G653 $1.00**

### 100V 4amp Inline Bridge Rectifier

Type KBU401 bridge rectifier is rated 100VAC 4amp. Size is .9" (L) x .26" (W) x .79" (H).

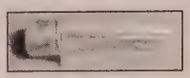
**G12991 2/$1.00**

### WL02 100V 1.5amp Bridge Rectifier

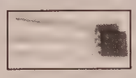
Mini plastic case bridge rectifier is about the size of a T05 transistor. Rated 1.5amp at 100V. Prime long lead units.

**G12976 2/$1.00 • 10/$4.50**

## 2N, MPS, & PN Series Transistors



M = Metal



P = Plastic

### 2N TRANSISTORS

| | | | |
|---|---|---|---|
| 2N706 | T018M | G43102 | .68 |
| 2N708 | T018M | G43103 | .25 |
| 2N720 | T018M | G43105 | .35 |
| 2N722 | T018M | G43106 | .45 |
| 2N759 | T018M | G43107 | .75 |
| 2N835 | T018M | G43108 | 1.00 |
| 2N869A | T018M | G43109 | 1.00 |
| 2N915 | T018M | G43110 | 1.00 |
| 2N930 | TO18M | G43112 | .48 |
| 2N956 | T018M | G43113 | 2.20 |
| 2N963 | T018M | G43114 | 1.20 |
| 2N975 | T018M | G43115 | 1.00 |
| 2N1118 | T05M | G43116 | 1.75 |
| 2N1156 | T05M | G43117 | 1.45 |
| 2N1377 | T05M | G43118 | 1.50 |
| 2N1599 | T05M | G43119 | 1.50 |
| 2N1613 | T05M | G43120 | 1.25 |
| 2N2222A | T018M | G43124 | .25 |
| 2N2369 | T018M | G43125 | .50 |
| 2N2501 | T018M | G43126 | .50 |
| 2N2907A | T018M | G43129 | .25 |
| 2N3013 | T018M | G43130 | .25 |
| 2N3019 | T018M | G43131 | .25 |
| 2N3055 | T03M | G43133 | .99 |
| 2N3064 | T018M | G43134 | .50 |
| 2N3227 | T018M | G43136 | 1.00 |
| 2N3244 | TO5M | G43137 | 1.90 |
| 2N3251 | T018M | G43138 | .39 |
| 2N3414 | T092P | G43139 | .20 |
| 2N3415 | T092P | G43372 | .12 |
| 2N3439 | T05M | G43140 | 1.94 |
| 2N3468 | T05M | G43141 | 1.80 |
| 2N3501 | T05M | G43142 | 1.80 |
| 2N3511 | T018M | G43143 | 1.39 |
| 2N3563 | T05M | G43145 | 1.00 |
| 2N3564 | T018M | G43146 | .65 |
| 2N3637 | T05M | G43147 | 2.80 |
| 2N3639 | T018M | G43148 | .75 |
| 2N3640 | T092P | G43149 | .20 |
| 2N3702 | T092P | G43373 | .12 |
| 2N3772 | T03M | G43150 | 1.00 |
| 2N3865 | T05M | G43152 | 1.00 |
| 2N3903 | T092P | G43153 | .12 |
| 2N3904 | T092P | G43154 | .12 |
| 2N3905 | T092P | G43374 | .12 |
| 2N3906 | T092P | G43155 | .12 |
| 2N3958 | T018M | G43156 | 3.00 |
| 2N4062 | T092P | G43157 | .12 |
| 2N4124 | T092P | G43158 | .12 |
| 2N4125 | T092P | G43159 | .12 |
| 2N4126 | T092P | G43160 | .12 |
| 2N4400 | T092P | G43375 | .12 |
| 2N4401 | T092P | G43161 | .12 |
| 2N4402 | T092P | G43376 | .12 |
| 2N4403 | T092P | G43162 | .12 |
| 2N4410 | T092P | G43377 | .15 |
| 2N5031 | T018M | G43165 | .25 |
| 2N5042 | T05M | G43166 | .55 |
| 2N5058 | T05M | G43167 | .50 |
| 2N5087 | T092P | G43168 | .18 |
| 2N5088 | T092P | G43169 | .18 |
| 2N5208 | T092P | G43170 | .12 |
| 2N5210 | T092P | G43171 | .12 |
| 2N5222 | T092P | G43172 | .12 |
| 2N5228 | T092P | G43378 | .13 |
| 2N5308 | T092P | G43173 | .22 |
| 2N5401 | T092P | G43174 | .12 |
| 2N5550 | T092P | G43379 | .15 |
| 2N5551 | T092P | G43176 | .12 |
| 2N5638 | T092P | G43381 | .40 |
| 2N5769 | T092P | G43178 | .12 |
| 2N5770 | T092P | G43382 | .18 |
| 2N5771 | T092P | G43179 | .12 |
| 2N4772 | T092P | G43180 | .22 |
| 2N5836 | T018M | G43181 | .25 |
| 2N6028 | T092P | G43383 | .25 |
| 2N6039 | T0126P | G43182 | 1.00 |
| 2N6070 | T0126P | G43183 | 1.00 |
| 2N6072 | T0126P | G43184 | 1.00 |
| 2N6073 | T0126P | G43185 | 1.00 |
| 2N6075 | T0126P | G43186 | 1.00 |
| 2N6426 | T092P | G43384 | .25 |
| 2N6517 | T092P | G43187 | .25 |
| 2N6520 | T092P | G43188 | .25 |
| 2N6718 | T0237P | G43190 | .39 |
| 2N6726 | T0237P | G43191 | .50 |
| 2N6727 | T092P | G43385 | .30 |
| 2N6730 | T092P | G43386 | .25 |
| 2N7000 | T092P | G43192 | .18 |
| 2N9114 | T018M | G43193 | 1.00 |

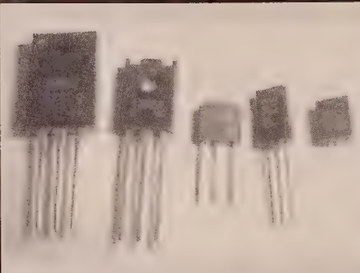
### MPS TRANSISTORS

| | | | |
|---|---|---|---|
| MPSUO2 | 152 | G43194 | .50 |
| MPSH04 | T092 | G43195 | .25 |
| MPSA05 | T092 | G43196 | .25 |
| MPSD05 | T092 | G43197 | .26 |
| MPSA06 | T092 | G43198 | .12 |
| MPSH17 | T092 | G43199 | .17 |
| MPSA18 | T092 | G43200 | .20 |
| MPSA20 | T092 | G43201 | .20 |
| MPSA25 | T092 | G43202 | .20 |
| MPSA27 | T092 | G43203 | .12 |
| MPSA42 | T092 | G43204 | .33 |
| MPSA44 | T092 | G43205 | .33 |
| MPSU52 | 102 | G43206 | .50 |
| MPSA55 | T092 | G43208 | .25 |
| MPSA56 | T092 | G43209 | .25 |
| MPSA63 | T092 | G43210 | .12 |
| MPSH69 | T092 | G43211 | .25 |
| MPSA70 | T092 | G43212 | .12 |
| MPSH81 | T092 | G43213 | .22 |
| MPSA92 | T092 | G43214 | .25 |
| MPSW92 | T092 | G43215 | .35 |
| MPSA93 | T092 | G43216 | .25 |
| MPS751 | T092 | G43218 | .12 |
| MPF960 | T092 | G43219 | .12 |
| MPS2222A | T092 | G43220 | .15 |
| MPS2369 | T092 | G43221 | .18 |
| MPS2907 | T092 | G43222 | .18 |
| MPS2924 | T092 | G43223 | .18 |
| MPS2925 | T092 | G43224 | .16 |
| MPS3403 | T092 | G43225 | .22 |
| MPS3565 | T092 | G43226 | .22 |
| MPS3640 | T092 | G43227 | .38 |
| MPS3646 | T092 | G43229 | .25 |
| MPS4250 | T092 | G43230 | .25 |
| MPS5161 | T092 | G43231 | .25 |
| MPS5172 | T092 | G43232 | .25 |
| MPS5179 | T092 | G43233 | .35 |
| MPS6512 | T092 | G43234 | .27 |
| MPS6516 | T092 | G43235 | .27 |
| MP6518 | T092 | G43236 | .25 |
| MPS6521 | T092 | G43237 | .36 |
| MPS6522 | T092 | G43238 | .12 |
| MPS6523 | T092 | G43239 | .12 |
| MPS6530 | T092 | G43240 | .12 |
| MPS6532 | T092 | G43241 | .12 |
| MPS6571 | T092 | G43244 | .25 |
| MPS6717 | T092 | G43245 | .25 |

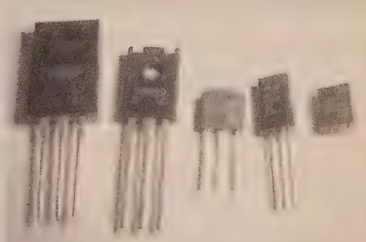
### PN TRANSISTORS

| | | | |
|---|---|---|---|
| PN100 | T092 | G43387 | .18 |
| PN200 | T092 | G43388 | .30 |
| PN2219 | T092 | G43389 | .28 |
| PN2222 | T092 | G43246 | .18 |
| PN2222A | T092 | G43247 | .20 |
| PN2905 | T092 | G43390 | .18 |
| PN2907 | T092 | G43248 | .18 |
| PN3563 | T092 | G43249 | .19 |
| PN3638 | T092 | G43250 | .32 |
| PN3644 | T092 | G43251 | .30 |
| PN3645 | T092 | G43252 | .28 |
| PN3646 | T092 | G43253 | .28 |
| PN4220 | T092 | G43391 | .20 |
| PN4258 | T092 | G43392 | .30 |
| PN4303 | T092 | G43393 | .30 |
| PN4356 | T092 | G43254 | .28 |
| PN5134 | T092 | G43394 | .18 |

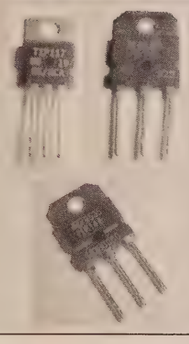
## Japanese Transistors



| | | | |
|---|---|---|---|
| 2SD29 | T092 | G43255 | .25 |
| 2SC458 | T092 | G43257 | .65 |
| 2SD468 | T092 | G43258 | $1.85 |
| 2SK553 | T0220 | G43259 | .85 |
| 2SB562C | T0226 | G43260 | .45 |
| 2SD612K | T0126 | G43261 | .43 |
| 2SK699 | T0126 | G43263 | $1.25 |
| 2SC709A | SOT23 | G43264 | .35 |
| 2SC717 | T092 | G43265 | .39 |
| 2SA719 | T092 | G43266 | .39 |
| 2SA733 | T092 | G43268 | .40 |
| 2SC733 | T092 | G43269 | .40 |
| 2SA844 | T092 | G43270 | .35 |
| 2SC871 | T0126 | G43271 | $1.25 |
| 2SB908 | T0251AA | G43272 | .50 |
| 2SC945 | T092 | G43273 | .25 |
| 2SA949 | T0226 | G43274 | .39 |
| 2SA950 | T092 | G43275 | .25 |
| 2SA958 | T0220 | G43276 | $1.00 |
| 2SA999 | T092 | G43277 | .25 |
| 2SC1000 | SOT223 | G43278 | .39 |
| 2SA1013 | T0226 | G43280 | .39 |
| 2SA1015 | T092 | G43281 | .26 |
| 2SB1096 | T0220 | G43282 | $1.50 |
| 2SB1109 | T0126 | G43283 | $1.25 |
| 2SD1138 | T0220 | G43284 | .75 |
| 2SC1162 | T0126 | G43285 | $1.00 |
| 2SA1200 | SOT23 | G43286 | .39 |
| 2SC1213 | T092 | G43287 | .35 |
| 2SK1221 | T0220 | G43288 | $3.16 |
| 2SA1266 | T092 | G43289 | .39 |
| 2SA1270 | T092 | G43290 | .39 |
| 2SA1271 | T092 | G43291 | .39 |
| 2SD1286 | T0251AA | G43292 | .75 |
| 2SA1293 | T0220 | G43293 | $1.25 |
| 2SC1583 | 5PSIP | G43296 | .75 |
| 2SC1730 | T092 | G43297 | .25 |
| 2SC1815 | T092 | G43298 | .55 |
| 2SC1855 | T092 | G43299 | .25 |
| 2SC1906 | T092 | G43300 | .25 |
| 2SK1924 | T0220 | G43301 | $1.75 |
| 2SC2026 | T092 | G43302 | .85 |
| 2SC2061 | T0226 | G43304 | .49 |
| 2SC2120 | T092 | G43305 | .50 |
| 2SK2161 | T0220 | G43308 | $1.63 |
| 2SC2236 | T0226 | G43311 | $1.05 |
| 2SK2299 | T0220 | G43312 | $1.15 |
| 2SC2320 | T092 | G43313 | .35 |
| 2SC2383 | T0226 | G43314 | .49 |
| 2SC2482 | T0226 | G43315 | $1.00 |
| 2SC2500 | T0226 | G43317 | .39 |
| 2SC2555 | T03P | G43318 | $1.29 |
| 2SC2570 | T092 | G43319 | .25 |
| 2SC2682 | T0126 | G43320 | .67 |
| 2SC3136 | T092 | G43323 | .25 |
| 2SC3148 | TO220 | G43324 | $2.06 |
| 2SC3202 | T092 | G43326 | .25 |
| 2SC3225 | T0226 | G43327 | .39 |
| 2SC3271 | T0126 | G43328 | $1.25 |
| 2SC3303 | T0251AA | G43329 | .29 |
| 2SC3568 | T0220 | G43330 | $1.25 |
| 2SC3675 | T0220 | G43331 | $1.15 |
| 2SC3688 | T03P | G43332 | $6.30 |
| 2SC3953 | T0126 | G43333 | .87 |
| 2SC3955 | T0126 | G43334 | .92 |

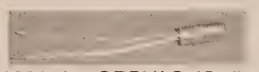


## TIP Series Power Transistors



| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TIP29 | T0220 | G43335 | .57 | TIP41 | T0220 | G43349 | .69 | TIP117 | T0220 | G43362 | .62 |
| TIP29A | T0220 | G43336 | .57 | TIP41A | T0220 | G43350 | .71 | TIP120 | T0220 | G43363 | .60 |
| TIP30 | T0220 | G43337 | .57 | TIP41C | T0220 | G43351 | .72 | TIP121 | T0220 | G43364 | .60 |
| TIP31B | T0220 | G43339 | .45 | TIP42C | T0220 | G43352 | .73 | TIP122 | T0220 | G43365 | .62 |
| TIP31C | T0220 | G43340 | .58 | TIP48 | T0220 | G43353 | .73 | TIP126 | T0220 | G43366 | .60 |
| TIP32A | T0220 | G43341 | .54 | TIP49 | T0220 | G43354 | .62 | TIP127 | T0220 | G43367 | .62 |
| TIP32C | T0220 | G43342 | .58 | TIP50 | T0220 | G43355 | .80 | TIP140 | T0218 | G43368 | $1.44 |
| TIP33A | T0218 | G43343 | $1.24 | TIP100 | T0220 | G43356 | .66 | TIP146 | T0218 | G43369 | $1.46 |
| TIP33C | T0218 | G43344 | $1.26 | TIP102 | T0220 | G43357 | .70 | TIP147 | T0218 | G43370 | $1.50 |
| TIP34A | T0218 | G43345 | $1.15 | TIP107 | T0220 | G43358 | .70 | TIPL760A | T0220 | G43371 | .70 |
| TIP35A | T0218 | G43346 | $1.50 | TIP110 | T0220 | G43359 | .58 | | | | |
| TIP36C | T0218 | G43347 | $1.76 | TIP111 | T0220 | G43360 | .62 | | | | |
| TIP37A | T220 | G43348 | $1.00 | TIP112 | T0220 | G43361 | .62 | | | | |

### Rare Antique Transistor Type 2N128 JAN



This PNP germanium transistor was one of the early "high frequency" types. These found extensive usage in early government/defense applications. In fact in 1961 the ORDVAC (Ordinance Variable Automatic Computer) made for the U.S. Army, used 1300 of these beauties! Ours are metal case JAN (government rated) units which are metal case with original marking and full length leads. Own a bit of history before these disappear forever!

**G2299 $1.00 ea.**

### High Voltage NPN Horizontal Deflection Output Transistor

Type S2055N crosses over to the ST1803DHI, BU4506D, BU4508D, BU2508D and 25D1878 NPN power transistors. These transistors are specifically designed for use in the horizontal deflection output cathode ray tube circuits of TVs and monitors. Each is prime fully marked and in the insulated ISOWATT 218 package. These even have an integrated freewheeling diode.

**G4269 $1.59 ea.**

### RCA 3055

Plastic T0220 version of the popular 2N3055 NPN transistor. Prime marked unit at a great price

**G8745 2/$1.00 • 10/$4.50 • 100/$39.00 • 1000/$350.00**

## Metal Case Power Transistors

### T03 and T066 Case Sizes

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| BU208A | T03 | G13044 | $2.72 | 2N4035 | T03 | G13056 | $2.45 | 2N6058 | T03 | G13068 | $1.95 |
| 2N1137B | T03 | G13045 | $1.75 | 2N4232A | T066 | G13057 | $1.50 | 2N6249 | T03 | G13069 | $2.25 |
| 2N3055 | T03 | G13046 | $0.99 | MJ4247 | T03 | G13058 | $1.50 | 2N6254 | T03 | G13070 | $2.50 |
| 2N3584 | T066 | G13048 | $3.52 | 2N4898 | T066 | G13059 | $1.35 | 2N6258 | T03 | G13071 | $2.75 |
| 2N3595 | T066 | G13049 | $1.29 | 2N5631 | T03 | G13060 | $1.55 | 2N6284 | T03 | G13072 | $1.75 |
| 2N3731 | T03 | G13050 | $1.50 | 2N5672 | T03 | G13061 | $1.75 | 2N6296 | T03 | G13073 | $1.29 |
| 2N3740 | T066 | G13051 | $1.25 | 2N5878 | T03 | G13063 | $1.42 | 2N6424 | T03 | G13074 | $1.29 |
| 2N3741 | T066 | G13052 | $1.50 | 2N5884 | T03 | G13064 | $3.43 | 2N6542 | T03 | G13075 | $2.24 |
| 2N3767 | T066 | G13053 | $1.95 | 2N5886 | T03 | G13065 | $2.98 | 2N6576 | T03 | G13076 | $2.49 |
| 2N3772 | T03 | G13054 | $2.34 | 2N6031 | T03 | G13066 | $2.45 | | | | |
| MJ4010 | T03 | G13055 | $1.95 | 2N6057 | T03 | G13067 | $2.26 | | | | |

## Fets

### Motorola 400V 16amp MTW 16N40E Mosfet

Motorola heavy duty N-channel mosfet in a T0-247 plastic package. This has its leads bent over for pc board insertion. Prime fully marked part.

**G12997 $1.00 ea.**

### Power Mosfets/Hexfets Etc.

| Type | Case | Stock | Price |
|---|---|---|---|
| IRFZ20 | T0220 | G12977 | $1.59 |
| IRFZ34S | D2PAK | G12978 | $2.49 |
| IRF9Z30 | T0220 | G12979 | $1.59 |
| IRF540 | T0220 | G12980 | $1.59 |
| IRF720 | T0220 | G12981 | $1.69 |
| IRF9520 | T0220 | G12982 | $1.79 |
| IRF9540 | T0220 | G12983 | $1.79 |
| IRL520N | T0220 | G12984 | $2.00 |
| IRL530N | T0220 | G12985 | $2.25 |
| IRL540N | T0220 | G12986 | $2.49 |

### BTS112 Power Fet

Popular FET in a T0220 case. These have had their leads cut and formed into the shape shown in the picture, however they are prime marked units.

**G4099 2 for $1.00**

### Voltage Controlled Resistor Fet

Designed for small signal electronic attenuators, filters, amplifier gain control, oscillator amplitude control, etc. Made by Siliconix part #VCR2N, these have been specially designed to be a 3 terminal variable resistor where the resistance value between two of the terminals is controlled by a voltage applied to the third. These are prime, fully marked T018 metal case resistor FETS with a drain-source ON resistance range of 20Ω min. to 60Ω max. Complete with 10 pages containing info, specs, formulae and application notes. Very unique, interesting and useful device!

**G4257 2/$1.00 • 100/$40.00 • 1000/$295.00**

### 2N5639 JFET Chopper Transistor

Small T0-92 N Channel Junction Field Effect Transistors (depletion mode Type A) designed for chopper or other high speed applications. Features Low Drain-Source "On" resistance and Low reverse transfer capacitance of 4pF max @ 1MHZ. Prime made by Fairchild. On tape & reel.

**G13669 3/$1.00 • 100/$25.00**

**Factory Reel of 2000 for $360.00**

### 70amp 60V N-Channel Power Mosfet RFK70N06

Designed for switching regulators, switching converters, motor drives, relay drives and emitter switches for bipolar transistors. They can be operated directly from ICs. These are prime T0-204AE metal case units made by Intersil.

**G4270 $2.49 ea.**

## Triacs/SCRs

### International Rectifier 16RIA80 800V 16amp Thyristor

Metal case T0-48 Thyristor (phase control type) rated 800V @ 16amps. VGT= 2.0V, IGT+ 60ma and dv/dt= 300v/µs.) Brand new fully marked.

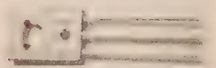
**G12765 $4.95 ea.**

### Super SCR Assortment

Assortment of 4 different prime SCRs. Please note: case styles may vary from picture. All are brand new.

**G13691 $1.00**

### Power Triacs



2N6073 400V 4AMP *TRIAC* **G4443 $1.00 ea.**

2N6400 50V 16AMP *TRIAC* **G4445 $1.00 ea.**

***Please Note: Case styles may vary from picture**

# Integrated Circuits

### 7400 SERIES

| | | |
|---|---|---|
| 7400 | G12400 | .45 |
| 7401 | G4629A | .35 |
| 7402 | G4630A | .35 |
| 7403 | G4631A | .35 |
| 7404 | G4632A | .38 |
| 7405 | G4633A | .35 |
| 7406 | G4634A | .45 |
| 7408 | G4636A | .59 |
| 7410 | G4637A | .35 |
| 7411 | G4638A | 2.25 |
| 7414 | G4639A | .45 |
| 7416 | G4640A | .29 |
| 7417 | G4641A | .35 |
| 7420 | G4642A | .49 |
| 7425 | G4643A | .99 |
| 7428 | G4644A | .59 |
| 7430 | G4645A | .29 |
| 7432 | G4646A | .59 |
| 7437 | G4647A | .49 |
| 7438 | G4648A | .35 |
| 7445 | G4649A | .89 |
| 7474 | G4650A | .45 |
| 7492 | G4652A | .99 |
| 7496 | G4653A | .59 |
| 74107 | G4654A | .25 |
| 74123 | G4655A | .89 |
| 74128 | G4656A | .55 |
| 74132 | G4657A | .69 |
| 74148 | G4658A | .79 |
| 74155 | G4659A | .29 |
| 74157 | G4660A | .35 |
| 74160 | G4661A | .25 |
| 74161 | G4662A | .35 |
| 74163 | G4663A | .39 |
| 74165 | G4664A | .69 |
| 74170 | G4665A | 1.90 |
| 74173 | G4666A | 1.05 |
| 74174 | G4667A | .29 |
| 74175 | G4668A | .29 |
| 74177 | G4669A | .29 |
| 74195 | G4670A | .29 |
| 74365 | G4671A | .59 |
| 74367 | G4672A | .25 |
| 74368 | G4673A | .65 |

### 74AC SERIES

| | | |
|---|---|---|
| 74AC00 | G12401 | .34 |
| 74AC10 | G12403 | .34 |
| 74AC32 | G12404 | .40 |
| 74AC74 | G12405 | .40 |
| 74AC138 | G12406 | .46 |
| 74AC139 | G12407 | .46 |
| 74AC153 | G12408 | .48 |
| 74AC158 | G12409 | .55 |
| 74AC251 | G12413 | .48 |
| 74AC541 | G12414 | .70 |
| 74AC574 | G12415 | .70 |
| 74AC11204 | G12416 | .55 |

### 74ACT SERIES

| | | |
|---|---|---|
| 74ACT04 | G12418 | .34 |
| 74ACT08 | G4674A | .34 |
| 74ACT53 | G4675A | .40 |
| 74ACT74 | G12419 | .40 |
| 74ACT157 | G4676A | .44 |
| 74ACT161 | G12420 | .52 |
| 74ACT174 | G12421 | .46 |
| 74ACT241 | G4677A | .55 |
| 74ACT244 | G4678A | .62 |
| 74ACT245 | G12422 | .60 |
| 74ACT251 | G4679A | .60 |
| 74ACT257 | G12423 | .46 |
| 74ACT273 | G12424 | .60 |
| 74ACT299 | G12425 | 1.29 |
| 74ACT374 | G12426 | .60 |
| 74ACT377 | G12427 | .70 |
| 74ACT533 | G12428 | .45 |
| 74ACT564 | G12429 | .45 |
| 74ACT573 | G12430 | .60 |
| 74ACT574 | G12431 | .65 |
| 74ACT623 | G12432 | .60 |
| 74ACT646 | G12433 | .60 |
| 74ACT823 | G12434 | .55 |
| 74ACTQ841 | G12435 | .50 |
| 74ACT11000 | G12436 | .60 |
| 74ACT1104 | G12437 | .60 |
| 74CT11257 | G12438 | .60 |
| 74ACT11377 | G4680A | .65 |

### 74ALS SERIES

| | | |
|---|---|---|
| 74ALS00 | G4681A | .30 |
| 74ALS02 | G4682A | .30 |
| 74ALS03 | G12439 | .30 |
| 74ALS04 | G12440 | .30 |
| 74ALS05 | G12441 | .30 |
| 74ALS08 | G4683A | .30 |
| 74ALS09 | G4684A | .30 |
| 74ALS11 | G12443 | .35 |
| 74ALS15 | G4685A | .35 |
| 74ALS20 | G12444 | .30 |
| 74ALS21 | G12445 | .30 |
| 74ALS27 | G12446 | .35 |
| 74ALS30 | G12447 | .35 |
| 74ALS32 | G4686A | .35 |
| 74ALS74 | G4687A | .45 |
| 74ALS86 | G12448 | .45 |
| 74ALS112 | G4688A | .45 |
| 74ALS117 | G12449 | .35 |
| 74ALS131 | G12450 | .35 |
| 74ALS137 | G12451 | .35 |
| 74ALS138 | G12452 | .50 |
| 74ALS139 | G4689A | .50 |
| 74ALS151 | G12453 | .50 |
| 74ALS153 | G4690A | .50 |
| 74ALS163 | G4691A | .75 |
| 74ALS168 | G12454 | .50 |
| 74ALS169 | G12455 | .75 |
| 74ALS175 | G4692A | .70 |
| 74ALS191 | G12456 | .90 |
| 74ALS193 | G12458 | .90 |
| 74ALS240 | G12459 | .90 |
| 74ALS241 | G12460 | .90 |
| 74ALS244 | G4693A | .90 |
| 74ALS245 | G4694A | .90 |
| 74ALS253 | G12461 | .70 |
| 74ALS273 | G4695A | 1.00 |
| 74ALS275 | G12462 | .85 |
| 74ALS299 | G12463 | 2.25 |
| 74ALS373 | G4696A | .90 |
| 74ALS374 | G4697A | .90 |
| 74ALS465 | G12464 | 1.45 |
| 74ALS519 | G4698A | .90 |
| 74ALS520 | G12465 | 1.45 |
| 74ALS521 | G12466 | 1.45 |
| 74ALS528 | G4699A | 2.75 |
| 74ALS534 | G12467 | 1.25 |
| 74ALS640 | G4700A | 2.75 |
| 74ALS541 | G12469 | 2.25 |
| 74ALS569 | G12470 | 2.25 |
| 74ALS573 | G12471 | 1.00 |
| 74ALS574 | G12472 | 1.00 |
| 74ALS640 | G4700A | 1.25 |
| 74ALS641 | G12473 | 1.25 |
| 74ALS645 | G4701A | 2.05 |
| 74ALS646 | G4702A | 2.75 |
| 74ALS841 | G12474 | 3.50 |
| 74ALS993 | G4703A | 1.55 |
| 74ALS996 | G4704A | 1.60 |
| 74ALS1035 | G12476 | .45 |
| 74ALS2986 | G12477 | 1.75 |

### 74AS SERIES

| | | |
|---|---|---|
| 74AS00 | G12478 | .40 |
| 74AS02 | G4705A | .40 |
| 74AS04 | G12479 | .40 |
| 74AS08 | G4706A | .40 |
| 74AS10 | G12480 | .40 |
| 74AS11 | G12481 | .40 |
| 74AS20 | G4707A | .40 |
| 74AS27 | G12482 | .40 |
| 74AS30 | G12483 | .40 |
| 74AS32 | G4708A | .40 |
| 74AS74 | G4709A | 1.50 |
| 74AS86 | G12484 | .45 |
| 74AS138 | G12485 | .90 |
| 74AS151 | G4710A | .90 |
| 74AS153 | G12486 | .90 |
| 74AS157 | G4711A | .70 |
| 74AS158 | G12487 | .45 |
| 74AS161 | G4712A | 2.20 |
| 74AS163 | G4713A | 2.20 |
| 74AS169 | G12488 | 2.20 |
| 74AS194 | G12489 | 1.95 |
| 74AS244 | G4714A | 1.60 |
| 74AS245 | G4715A | 1.80 |
| 74AS250 | G4716A | 2.20 |
| 74AS257 | G4717A | .40 |
| 74AS258 | G12490 | .40 |
| 74AS280 | G12491 | 1.10 |
| 74AS286 | G12492 | .60 |
| 74AS298 | G12493 | 1.20 |
| 74AS374 | G4718A | 1.50 |
| 74AS375 | G12494 | 1.25 |
| 74AS533 | G12495 | 1.75 |
| 74AS641 | G12497 | 1.75 |
| 74AS651 | G4719A | 3.50 |
| 74AS760 | G4720A | 2.25 |
| 74AS804 | G4721A | 2.25 |
| 74AS823 | G4722A | 2.25 |
| 74AS832 | G12498 | 2.25 |
| 74AS1000 | G4723A | .90 |
| 74AS1004 | G12499 | .90 |
| 74AS1032 | G4724A | .90 |
| 74AS1804 | G12500 | 2.00 |
| 74AS1805 | G12501 | 2.00 |
| 74AS8058 | G12502 | 2.00 |
| 74AS8088 | G12503 | 2.00 |

### 74BC SERIES

| | | |
|---|---|---|
| 74BC00 | G12504 | 1.00 |
| 74BC08 | G12505 | 1.00 |
| 74BC32 | G12506 | 1.00 |

### 74BCT SERIES

| | | |
|---|---|---|
| 74BCT244 | G12507 | 1.25 |
| 74BCT760 | G12508 | 1.25 |
| 74BCT8373 | G12509 | 1.25 |

### 74F SERIES

| | | |
|---|---|---|
| 74F00 | G4725A | .22 |
| 74F02 | G4726A | .22 |
| 74F04 | G4727A | .22 |
| 74F06 | G4728A | .22 |
| 74F08 | G4729A | .22 |
| 74F10 | G4730A | .22 |
| 74F11 | G4731A | .25 |
| 74F14 | G4732A | .35 |
| 74F20 | G4733A | .35 |
| 74F27 | G4734A | .35 |
| 74F30 | G4735A | .35 |
| 74F32 | G4736A | .35 |
| 74F38 | G4737A | .35 |
| 74F40 | G4738A | .35 |
| 74F51 | G4739A | .35 |
| 74F74 | G4740A | .22 |
| 74F85 | G4741A | .35 |
| 74F86 | G4742A | .35 |
| 74F109 | G4743A | .35 |
| 74F112 | G4744A | .45 |
| 74F113 | G12510 | .45 |
| 74F125 | G4745A | .45 |
| 74F138 | G4746A | .35 |
| 74F139 | G4747A | .35 |
| 74F151 | G4748A | .35 |
| 74F153 | G4749A | .35 |
| 74F157 | G4750A | .35 |
| 74F158 | G4751A | .40 |
| 74F161 | G4752A | .40 |
| 74F164 | G4753A | .55 |
| 74F175 | G4754A | .50 |
| 74F191 | G12511 | .45 |
| 74F193 | G4755A | .45 |
| 74F240 | G4756A | .40 |
| 74F243 | G4757A | .40 |
| 74F244 | G4758A | .40 |
| 74F245 | G4759A | .40 |
| 74F251 | G4760A | .40 |
| 74F253 | G4761A | .40 |
| 74F257 | G4762A | .40 |
| 74F258 | G4763A | .40 |
| 74F273 | G4764A | .40 |
| 74F280 | G4765A | .40 |
| 74F283 | G4766A | .40 |
| 74F299 | G4767A | .40 |
| 74F365 | G4768A | .40 |
| 74F367 | G12512 | .40 |
| 74F373 | G4769A | .40 |
| 74F374 | G4770A | .40 |
| 74F377 | G4771A | .40 |
| 74F379 | G4772A | .40 |
| 74F540 | G4773A | .40 |
| 74F821 | G4774A | .60 |
| 74F825 | G4775A | .60 |
| 74F827 | G4776A | .60 |
| 74F1763 | G12513 | .60 |

### 74FCT SERIES

| | | |
|---|---|---|
| 74FCT240 | G12514 | .55 |
| 74FCT244 | G12515 | .55 |
| 74FCT245 | G12516 | .55 |
| 74FCT299 | G12517 | .55 |
| 74FCT399 | G12518 | .55 |
| 74FCT521 | G12519 | .55 |
| 74FCT541 | G12520 | .60 |
| 74FCT543 | G12521 | .60 |
| 74FCT645 | G12522 | .60 |
| 74FCT824 | G12523 | .60 |
| 74FCT825 | G12524 | .60 |
| 74FCT827 | G12525 | .60 |
| 74FCT833 | G12526 | .60 |

### 74H SERIES

| | | |
|---|---|---|
| 74H04 | G12527 | .30 |
| 74H05 | G12528 | .30 |
| 74H10 | G12529 | .30 |
| 74H11 | G12530 | .30 |
| 74H21 | G12531 | .30 |
| 74H54 | G12532 | .30 |
| 74H103 | G12533 | .30 |

### 74HC SERIES

| | | |
|---|---|---|
| 74HC00 | G4777A | .34 |
| 74HC02 | G4778A | .34 |
| 74HC03 | G4779A | .34 |
| 74HC04 | G4780A | .34 |
| 74HC05 | G12534 | .34 |
| 74HC08 | G4781A | .34 |
| 74HC10 | G4782A | .34 |
| 74HC11 | G4783A | .34 |
| 74HC14 | G4784A | .40 |
| 74HC20 | G4785A | .34 |
| 74HC27 | G4786A | .34 |
| 74HC30 | G4787A | .34 |
| 74HC32 | G4788A | .34 |
| 74HC42 | G12535 | .52 |
| 74HC51 | G4789A | .34 |
| 74HC74 | G4790A | .40 |
| 74HC75 | G12536 | .40 |
| 74HC86 | G4792A | .40 |
| 74HC109 | G4793A | .40 |
| 74HC112 | G4794A | .40 |
| 74HC123 | G4795A | .56 |
| 74HC125 | G4796A | .40 |
| 74HC126 | G4797A | .40 |
| 74HC132 | G12537 | .40 |
| 74HC137 | G12538 | .50 |
| 74HC138 | G4798A | .46 |
| 74HC139 | G4799A | .49 |
| 74HC148 | G12539 | .52 |
| 74HC151 | G4800A | .44 |
| 74HC153 | G4801A | .48 |
| 74HC154 | G4802A | 2.20 |
| 74HC155 | G4803A | .48 |
| 74HC157 | G4804A | .44 |
| 74HC158 | G12540 | .48 |
| 74HC161 | G4805A | .52 |
| 74HC163 | G12541 | .52 |
| 74HC164 | G4806A | .50 |
| 74HC165 | G4807A | .50 |
| 74HC173 | G12542 | .52 |
| 74HC174 | G4808A | .52 |
| 74HC175 | G4809A | .52 |
| 74HC193 | G4810A | .62 |
| 74HC237 | G12543 | .52 |
| 74HC238 | G12544 | .50 |
| 74HC240 | G4811A | .62 |
| 74HC241 | G4812A | .62 |
| 74HC244 | G4813A | .62 |
| 74HC245 | G4814A | .80 |
| 74HC251 | G4815A | .48 |
| 74HC253 | G4816A | .48 |
| 74HC257 | G12545 | .48 |
| 74HC258 | G12546 | .48 |
| 74HC273 | G4817A | .62 |
| 74HC299 | G12547 | .96 |
| 74HC354 | G4818A | .44 |
| 74HC365 | G12548 | .44 |
| 74HC368 | G4819A | .44 |
| 74HC373 | G4820A | .62 |
| 74HC374 | G4821A | .62 |
| 74HC375 | G4822A | .62 |
| 74HC386 | G4823A | .62 |
| 74HC393 | G12549 | .58 |
| 74HC540 | G12550 | .70 |
| 74HC541 | G4824A | .70 |
| 74HC564 | G12551 | .70 |
| 74HC573 | G12552 | .70 |
| 74HC574 | G12553 | .70 |
| 74HC590 | G12554 | .86 |
| 74HC592 | G12555 | .82 |
| 74HC595 | G12556 | .82 |
| 74HC648 | G12557 | .75 |
| 74HC688 | G4826A | .88 |
| 74HC4002 | G4827A | .34 |
| 74HC4015 | G4828A | .38 |
| 74HC4016 | G4829A | .44 |
| 74HC4017 | G4830A | .60 |
| 74HC4020 | G4831A | .70 |
| 74HC4024 | G12558 | .52 |
| 74HC4040 | G4832A | .68 |
| 74HC4046 | G4833A | 2.00 |
| 74HC4050 | G12559 | .44 |
| 74HC4051 | G12560 | .84 |
| 74HC4052 | G12561 | .84 |
| 74HC4053 | G12562 | .84 |
| 74HC4066 | G4834A | .44 |
| 74HC4075 | G4835A | .34 |
| 74HC4078 | G4836A | .34 |
| 74HC4316 | G12563 | .48 |
| 74HC4352 | G12564 | .48 |
| 74HC4514 | G4837A | 2.20 |
| 74HC4538 | G12565 | 2.20 |
| 74HC7266 | G4838A | .44 |
| 74HC9114 | G12567 | .55 |

### 74HCT SERIES

| | | |
|---|---|---|
| 74HCT00 | G4839A | .34 |
| 74HCT02 | G4840A | .34 |
| 74HCT04 | G4841A | .34 |
| 74HCT08 | G4842A | .34 |
| 74HCT10 | G4843A | .34 |
| 74HCT14 | G4844A | .40 |
| 74HCT20 | G4845A | .40 |
| 74HCT21 | G4846A | .40 |
| 74HCT27 | G4847A | .34 |
| 74HCT32 | G4848A | .34 |
| 74HCT34 | G4849A | .40 |
| 74HCT42 | G4850A | .40 |
| 74HCT51 | G4851A | .40 |
| 74HCT74 | G4852A | .38 |
| 74HCT86 | G4853A | .40 |
| 74HCT105 | G4854A | .40 |
| 74HCT112 | G12568 | .60 |
| 74HCT123 | G12569 | .60 |
| 74HCT125 | G4855A | .40 |
| 74HCT126 | G12570 | .50 |
| 74HCT138 | G4856A | .48 |
| 74HCT139 | G12571 | .51 |
| 74HCT153 | G12572 | .55 |
| 74HCT157 | G12573 | .52 |
| 74HCT158 | G4858A | .52 |
| 74HCT161 | G4859A | .51 |
| 74HCT163 | G12574 | .50 |
| 74HCT166 | G12575 | .50 |
| 74HCT174 | G4861A | .52 |
| 74HCT175 | G15276 | .80 |
| 74HCT240 | G4862A | .68 |
| 74HCT241 | G4863A | .68 |
| 74HCT244 | G4864A | .68 |
| 74HCT245 | G4865A | .68 |
| 74HCT251 | G12577 | .80 |
| 74HCT253 | G4866A | .80 |
| 74HCT257 | G4867A | .50 |
| 74HCT259 | G12578 | .50 |
| 74HCT273 | G12579 | .66 |
| 74HCT367 | G4868A | .54 |
| 74HCT373 | G12580 | .68 |
| 74HCT374 | G4869A | .68 |
| 74HCT377 | G4870A | .68 |
| 74HCT393 | G12581 | .60 |
| 74HCT541 | G12582 | .70 |
| 74HCT574 | G12583 | .70 |
| 74HCT612 | G4871A | .70 |
| 74HCT645 | G12584 | .60 |
| 74HCT4053 | G4872A | .45 |
| 74HCT4059 | G12585 | .45 |

# Integrated Circuits

### 74HCLTS SERIES

| | | |
|---|---|---|
| 74HCLTS04 | G12587 | .38 |
| 74HCLTS74 | G12588 | .38 |
| 74HCLTS257 | G12589 | .50 |
| 74HCLTS541 | G12590 | .70 |

### 74LS SERIES

| | | |
|---|---|---|
| 74LS00 | G4873A | .25 |
| 74LS01 | G4874A | .25 |
| 74LS02 | G4875A | .25 |
| 74LS03 | G4876A | .25 |
| 74LS04 | G4877A | .25 |
| 74LS05 | G4878A | .25 |
| 74LS07 | G12591 | 1.00 |
| 74LS08 | G4879A | .25 |
| 74LS09 | G4880A | .29 |
| 74LS10 | G4881A | .25 |
| 74LS11 | G4882A | .25 |
| 74LS14 | G4883A | .25 |
| 74LS15 | G4884A | .25 |
| 74LS20 | G4885A | .25 |
| 74LS21 | G4886A | .25 |
| 74LS27 | G4887A | .25 |
| 74LS30 | G4888A | .25 |
| 74LS31 | G12592 | .40 |
| 74LS32 | G4889A | .25 |
| 74LS33 | G4890A | .40 |
| 74LS37 | G4891A | .25 |
| 74LS38 | G4892A | .29 |
| 74LS40 | G4893A | .29 |
| 74LS42 | G4894A | .69 |
| 74LS51 | G4895A | .35 |
| 74LS54 | G4896A | .50 |
| 74LS74 | G4897A | .29 |
| 74LS75 | G4898A | .55 |
| 74LS76 | G4899A | .69 |
| 74LS85 | G4900A | .35 |
| 74LS86 | G4901A | .29 |
| 74LS91 | G4902A | .29 |
| 74LS92 | G12593 | .45 |
| 74LS93 | G4903A | .69 |
| 74LS95 | G4904A | .39 |
| 74LS96 | G12594 | .50 |
| 74LS107 | G4905A | .25 |
| 74LS109 | G4906A | .25 |
| 74LS112 | G4907A | .25 |
| 74LS113 | G4908A | .49 |
| 74LS122 | G4909A | .39 |
| 74LS123 | G4910A | .35 |
| 74LS125 | G4911A | .35 |
| 74LS126 | G4912A | .35 |
| 74LS132 | G4913A | .32 |
| 74LS133 | G4914A | .29 |
| 74LS136 | G12595 | .35 |
| 74LS137 | G4915A | 1.00 |
| 74LS138 | G4916A | .29 |
| 74LS139 | G4917A | .29 |
| 74LS145 | G12596 | .45 |
| 74LS148 | G4918A | .89 |
| 74LS151 | G12597 | .29 |
| 74LS152 | G12598 | .45 |
| 74LS153 | G4919A | .29 |
| 74LS155 | G4921A | .25 |
| 74LS156 | G4922A | .25 |
| 74LS157 | G4923A | .29 |
| 74LS158 | G4924A | .69 |
| 74LS160 | G12599 | .69 |
| 74LS161 | G4925A | .29 |
| 74LS162 | G4926A | .52 |
| 74LS163 | G4927A | .29 |
| 74LS164 | G4928A | .29 |
| 74LS165 | G4929A | .49 |
| 74LS166 | G4930A | .35 |
| 74LS169 | G4931A | .59 |
| 74LS173 | G4932A | .39 |
| 74LS174 | G4933A | .29 |
| 74LS175 | G4934A | .29 |
| 74LS191 | G4935A | .39 |
| 74LS193 | G4936A | .59 |
| 74LS194 | G4937A | .59 |
| 74LS195 | G4938A | .35 |
| 74LS221 | G4939A | .39 |
| 74LS240 | G4940A | .35 |
| 74LS241 | G4941A | .35 |
| 74LS243 | G4942A | .35 |
| 74LS244 | G4943A | .39 |
| 74LS245 | G4944A | .39 |
| 74LS251 | G4945A | .35 |
| 74LS253 | G4946A | .29 |
| 74LS257 | G4947A | .29 |
| 74LS258 | G4948A | .29 |
| 74LS259 | G4949A | .39 |
| 74LS266 | G4950A | .35 |
| 74LS273 | G4951A | .39 |
| 74LS279 | G12600 | .29 |
| 74LS280 | G4952A | .29 |
| 74LS283 | G4953A | .45 |
| 74LS292 | G12601 | .75 |
| 74LS298 | G4954A | 1.00 |
| 74LS299 | G12602 | 1.05 |
| 74LS348 | G4955A | 1.00 |
| 74LS352 | G4956A | 1.00 |
| 74LS365 | G4957A | .79 |
| 74LS366 | G12603 | .79 |
| 74LS367 | G4958A | .29 |
| 74LS368 | G4959A | .29 |
| 74LS373 | G4960A | .39 |
| 74LS374 | G4961A | .39 |
| 74LS375 | G4962A | .49 |
| 74LS377 | G4963A | .39 |
| 74LS378 | G4964A | .89 |
| 74LS390 | G4965A | .39 |
| 74LS393 | G4966A | .45 |
| 74LS399 | G12604 | 1.00 |
| 74LS423 | G4967A | 1.05 |
| 74LS461 | G4968A | 1.05 |
| 74LS541 | G4969A | .69 |
| 74LS590 | G4970A | 2.49 |
| 74LS629 | G4971A | 2.49 |
| 74LS645 | G4972A | .59 |
| 74LS646 | G4973A | 3.49 |
| 74LS670 | G4974A | 1.00 |
| 74LS682 | G4975A | 1.00 |
| 74LS688 | G4976A | 1.19 |
| 74LS996 | G4977A | 1.50 |

### 74S SERIES

| | | |
|---|---|---|
| 74200 | G12605 | .95 |
| 74S02 | G12606 | .95 |
| 74S04 | G12607 | .95 |
| 74S08 | G12608 | .95 |
| 74S09 | G12609 | .95 |
| 74S10 | G12610 | .95 |
| 74S11 | G12611 | .95 |
| 74S15 | G12612 | .95 |
| 74S20 | G12613 | .95 |
| 74S30 | G12614 | 1.00 |
| 74S32 | G12615 | 1.20 |
| 74S37 | G12616 | 1.20 |
| 74S38 | G12617 | 1.20 |
| 74S40 | G12618 | .95 |
| 74S51 | G12619 | .95 |
| 74S64 | G12620 | .95 |
| 74S74 | G12621 | 1.00 |
| 74S85 | G12622 | 1.00 |
| 74S86 | G12623 | 1.50 |
| 74S109 | G12624 | 2.00 |
| 74S112 | G12625 | 2.00 |
| 74S133 | G12626 | 1.50 |
| 74S138 | G12627 | 1.50 |
| 74S140 | G12628 | 1.61 |
| 74S151 | G12629 | 1.50 |
| 74S157 | G12630 | 1.00 |
| 74S158 | G12631 | 1.00 |
| 74S161 | G12632 | 1.00 |
| 74S163 | G12633 | 1.25 |
| 74S169 | G12634 | 1.00 |
| 74S174 | G12635 | 1.00 |
| 74S175 | G12636 | 1.00 |
| 74S189 | G12637 | 2.95 |
| 74S194 | G12638 | 1.75 |
| 74S225 | G12639 | 1.70 |
| 74S240 | G12640 | 1.50 |
| 74S241 | G12641 | 1.50 |
| 74S244 | G12642 | 1.50 |
| 74S257 | G12643 | 1.50 |
| 74S280 | G12644 | 1.50 |
| 74S283 | G12645 | 1.50 |
| 74S373 | G12648 | 2.50 |
| 74S374 | G12649 | 2.50 |
| 74S436 | G12650 | 2.50 |
| 74S1009 | G12651 | 2.50 |

### 75 SERIES

| | | |
|---|---|---|
| 75107 | G4978A | .39 |
| 75108 | G4979A | .39 |
| 75109 | G4980A | .39 |
| 75110 | G4981A | .49 |
| 75112 | G4982A | .49 |
| 75117 | G4983A | .49 |
| 75124 | G4984A | .59 |
| 75154 | G4985A | .79 |
| 75173 | G12652 | 1.69 |
| 75175 | G12653 | 1.09 |
| 75177 | G12654 | 1.09 |
| 75188 | G4986A | .29 |
| 75189 | G4987A | .25 |
| 75ALS192 | G12655 | .29 |
| 75451 | G4988A | .35 |
| 75452 | G4989A | .45 |
| 75454 | G4990A | .45 |
| 75461 | G4991A | .45 |
| 75466 | G4992A | .45 |
| 75473 | G4993A | .55 |
| 75477 | G4994A | .50 |

### 4000 SERIES

| | | |
|---|---|---|
| 4001 | G4996A | .25 |
| 4011 | G4997A | .25 |
| 4012 | G4998A | .34 |
| 4013 | G4999A | .25 |
| 4014 | G5000A | .66 |
| 4015 | G5001A | .66 |
| 4018 | G5003A | .49 |
| 4019 | G5004A | .40 |
| 4020 | G5005A | .45 |
| 4021 | G5006A | .35 |
| 4022 | G5007A | .69 |
| 4023 | G5008A | .25 |
| 4024 | G5009A | .35 |
| 4025 | G5010A | .35 |
| 4027 | G12656 | .25 |
| 4028 | G5014A | .29 |
| 4029 | G12657 | .49 |
| 4041 | G12658 | .52 |
| 4042 | G5012A | .35 |
| 4043 | G5013A | .29 |
| 4046 | G12659 | .65 |
| 4047 | G5015A | .59 |
| 4049 | G5016A | .25 |
| 4051 | G5017A | .45 |
| 4052 | G5018A | .45 |
| 4053 | G5019A | .45 |
| 4066 | G5021A | .35 |
| 4067 | G12660 | 1.75 |
| 4068 | G12661 | .34 |
| 4069 | G5022A | .25 |
| 4070 | G5023A | .25 |
| 4071 | G5024A | .34 |
| 4072 | G12662 | .34 |
| 4073 | G5025A | .34 |
| 4077 | G12663 | .34 |
| 4078 | G5026A | .34 |
| 4081 | G5027A | .25 |
| 4082 | G5028A | .34 |
| 4085 | G5029A | .60 |
| 4094 | G5030A | .49 |
| 4098 | G12664 | .49 |
| 4174 | G5031A | .50 |
| 4175 | G5032A | .50 |
| 4501 | G5033A | .59 |
| 4502 | G5034A | .56 |
| 4503 | G5035A | .49 |
| 4504 | G5036A | .49 |
| 4508 | G5037A | .49 |
| 4512 | G5038A | .59 |
| 4516 | G5039A | .49 |
| 4518 | G5040A | .49 |
| 4520 | G5041A | .45 |
| MC14528 | G12666 | .69 |
| 4538 | G5042A | .49 |
| 4539 | G5043A | .49 |
| 4541 | G5044A | .49 |
| 4555 | G5045A | .58 |
| 4566 | G5047A | .59 |
| MC14568 | G12667 | .64 |
| 4585 | G5048A | .64 |
| 45145 | G12668 | 1.00 |
| 40109 | G5049A | 2.95 |
| 40163 | G12669 | .74 |
| 40188 | G5058A | .74 |
| 40193 | G12670 | .75 |

### LINEAR ICs

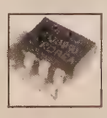
| | | |
|---|---|---|
| TL061 | G32100 | .69 |
| LM301 | G32103 | .49 |
| CA308 | G32105 | .49 |
| LM311 | G32108 | .39 |
| LM319 | G32110 | .79 |
| LM324 | G32112 | .29 |
| LM339 | G32113 | .29 |
| LF342CFN | G32114 | .29 |
| LF347 | G32115 | .59 |
| LM347 | G32116 | .59 |
| LM348 | G32117 | .49 |
| LF353N | G32118 | .39 |
| LF356 | G32119 | .79 |
| LM358 | G32120 | .69 |
| LM359 | G32121 | .69 |
| LM361 | G32122 | .69 |
| LM380 | G32123 | 1.19 |
| LM393 | G32124 | .29 |
| LM398 | G32125 | 1.49 |
| 555 | G32128 | .39 |
| 556 | G32129 | .45 |
| LM567CN | G32130 | .49 |
| 723 | G32132 | .39 |
| UA723 | G32133 | .39 |
| LM733 | G32134 | .39 |
| LM710CN | G32135 | .49 |
| LM711CN | G32136 | .49 |
| LM733CN | G32137 | .99 |
| LM741 | G32138 | .35 |
| LM747 | G32139 | 2.49 |
| MC1350 | G32140 | 1.00 |
| MC1355 | G32141 | 1.00 |
| LM1393 | G32142 | .39 |
| MC1455 | G32143 | .29 |
| MC1488 | G32144 | .29 |
| MC1489 | G32145 | .29 |
| MC1723 | G32147 | .39 |
| LM1889 | G32148 | .59 |
| LM2003 | G32149 | .39 |
| HP2300 | G32150 | .39 |
| TLC2721 | G32151 | .39 |
| LM2901 | G32152 | .39 |
| LM2902 | G32153 | .39 |
| LM2903 | G32154 | .39 |
| LM2904N | G32155 | .39 |
| LM2917N | G32156 | 2.95 |
| CA3046 | G32157 | .49 |
| LM3046 | G32158 | .49 |
| CA3071 | G32159 | .49 |
| CA3130AE | G32162 | 1.29 |
| M3403 | G32164 | .39 |
| PBL3713 | G32165 | .39 |
| VC3842 | G32166 | .49 |
| VC3843 | G32167 | .49 |
| SG3845 | G32168 | .49 |
| LM3900 | G32169 | .69 |
| MC4558 | G32171 | .59 |
| LM6361 | G32173 | .59 |
| ICL7673 | G32174 | .49 |
| TL7705 | G32175 | .49 |
| ICL7712 | G32176 | .39 |
| VA9638 | G32177 | .39 |
| MC14490P | G32178 | 2.99 |

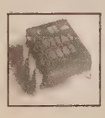
## OPTO Isolators

Standard 6 pin dip opto isolators. All prime and marked.

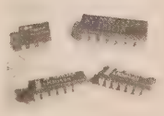
| | | |
|---|---|---|
| **4N26** | **G7629** | **49¢** |
| **4N35** | **G4081** | **3/$1.00** |
| **4N36** | **G8232** | **2/$1.00** |
| **4N38** | **G4369** | **3/$1.00** |
| **MCT2** | **G13005** | **3/$1.00** |
| **MCT2E** | **G13006** | **2/$1.00** |
| **SF600-2 (MCT275)** | **G6061** | **3/$1.00** |
| **MCT5211** | **G6060** | **3/$1.00** |
| **TIL111** | **G4082** | **3/$1.00** |
| **TIL113** | **G4083** | **3/$1.00** |
| **TIL117** | **G4084** | **3/$1.00** |
| **LTV814*** | **G7627** | **4/$1.00** |

***(has 4 leads)**





## Super IC Assortment



Assortment of 25 prime ICs including TTL memory, linear, voltage regulators, and CMOS types. All are marked with standard numbers (not house marked). Incredible value! Each assortment is different, so order several and stock up!

**G2010 $5.00**

## CMOS IC Assortment

Tremendous assortment of 25 of the various standard marked prime 4000 series CMOS ICs. Stock up at a real savings.

**G921 $5.00**

## Opto Isolator Assortment

Great assortment of 5 different opto isolators. All marked and prime.

**G5814 $2.00**

### TDA1013B 4Watt Audio Power Amplifier

Integrated audio amplifier circuit with DC volume control in a 9 pin single in-line plastic package. Operates from 10 to 40 volts DC and can be used in all types of power amplifier applications. Requires only a few external components. The DC volume control has a range of more than 80db and is controlled by a DC voltage of between 2 and 6.5V. Brand new with complete data sheet package.

**G4271 $2.49 ea.**

### TDA2005 20Watt Class B Amplifier

Made by SGS, tis 20watt bridge amplifier is perfect for car audio applications. Features flexibility in use: bridge or stereo booster amplifiers with or without boostrap and with programmable gain and bandwith. Multiwatt-11® package. Operates from 12 to 18VDC. Max current draw: 4.5amps. Complete with several schematics for use.

**G2164 $5.95 ea.**

### 40W + 40W Stereo Amplifier IC N82DYI (TDA 8563)

Simple to use power amplifier IC made by Philips is marked N82DY, however it is the TDA8563 80watt booster IC capable of 40W + 40W stereo into a 2Ω speaker. Operates from 8 to 18VDC and has a frequency response of 20Hz to 20kHz with max distortion 1%. Brand new in 13 pin plastic package. We include a simple schematic for making a stereo booster amplifier.

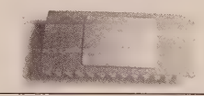
**G13043 $6.95 ea.**

### 8000 Series Microprocessors

| Stock# | Item | Description | Price |
|---|---|---|---|
| G5727 | 8031 | CPU with 128 x 8 RAM & I/O | $3.00 |
| G5728 | 80C31 | CPU with 128 x 8 RAM & I/O (CMOS) | $6.25 |
| G5729 | 8085 | CPU 8bit N Channel 3Mhz | $2.75 |
| G5730 | 8086 | CPU 16bit 5Mhz | $4.00 |
| G5732 | 80C86 | CPU 16bit 4Mhz (CMOS) | $4.25 |
| G5734 | 8088 | CPU 16bit 5Mhz (8bit data bus) | $3.50 |
| G5735 | 8088-2 | CPU 16bit 8Mhz (8bit data bus) | $5.50 |
| G5738 | 80186-6 | CPU 16bit 6Mhz | $4.00 |
| G5740 | 80286-6 | CPU 286 6Mhz | $8.00 |
| G5741 | 80286-8 | CPU 286 8Mhz | $9.00 |
| G5742 | 80286-10 | CPU 286 10Mhz | $10.00 |
| G5743 | 80C286-12 | CPU 286 12Mhz (CMOS) | $12.00 |
| G5747 | 82C54 | Prog. Interval Timer (CMOS) | $4.00 |
| G5750 | 8259 | Prog. Interval Controller (UPD71059) | $1.50 |
| G5752 | 8286 | Octal Bus Transceiver (UPD71086) | $2.50 |
| G5753 | 8287 | Octal Bus Transceiver (Inverted) | $2.60 |
| G5754 | 82C284-10 | Clock Generator & Interface (CMOS 10Mhz) | $5.00 |
| G5756 | 82289 | | $7.00 |

### Memory ICs

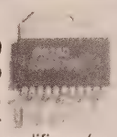
| | |
|---|---|
| 2149-55 | $1.95 ea. |
| MC51256-25 | $4.00 ea. |
| MC51256-35 | $3.75 ea. |
| MC51256-70 | $3.40 ea. |



### Miscellaneous ICs

| | | | |
|---|---|---|---|
| SAB1793-02P | $4.95 | SD5001N | $2.95 |
| 4164C-3 | $1.79 | MOC5008 | 49¢ |
| 41464C-12 | $2.29 | TC5565APL-12 | 79¢ |
| SCN2661C | $3.95 | 4L00 | 35¢ |
| SC47140LH | $5.00 | 74L51 | 35¢ |
| SDA2130 | $3.25 | 74BCT2983 | 35¢ |

### 100Watt Amplifier IC LM3875



High performance audio power amplifier IC capable of delivering 100 watts instantaneous peak output power or 40 watts continuously into an 8Ω speaker 20Hz-20KHz. Specs: signal-to-noise ratio - 95db(min), output short to ground protection, supply voltage min. - 20VDC, max. - 84VDC, thermal protection, spike protection. Great for stereo power amplifiers (requires 2 units), self-powered speakers, surround sound amplifiers, etc. TRA11B, 11 pin power package. Prime with specs and simple application circuit diagram.

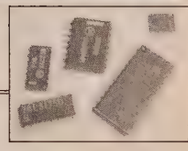
**G6943 $4.50 ea.**

### Custom Melody ICs

Here's a simple way to use an IC that produces a musical tune. Requires one 4049 IC and a few resistors, transistors and capacitors. Will drive a 2" speaker to full volume. Complete with simple schematic using a 9V battery. These unique 14 pin dip ICs are available in 3 tunes.

**"On Wisconsin" G2161 $1.00 ea.**
**"Univ of Arkansas" G2162 $1.00 ea.**
**"Marine Hymn" G2163 $1.00 ea.**

## Surface Mount (SMD) ICs

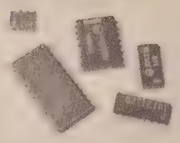


NOTE: These are equivalent to their standard size counterparts except these are in tiny surface mount packages. All are prime marked units. Please note that we have left off the D or M following the part # to avoid confusion. Since we don't use stock numbers on our ICs, make sure that you place the letters "**SMD**" in front of the IC you wish to order ( ie:*SMD 4001 IC*).

| Item | Price |
|---|---|
| **7400 SERIES** | |
| 7407 | 29¢ |
| **74ACT00 SERIES** | |
| 74ACT139 | 29¢ |
| 74ACT374 | 39¢ |
| 74ACT841 | 49¢ |
| 74ACT11109 | 42¢ |
| 74ACT11244 | 42¢ |
| **74AC00 SERIES** | |
| 74AC00 | 42¢ |
| 74AC08 | 42¢ |
| 74AC112 | 42¢ |
| 74AC11002 | 42¢ |
| **74AS00 SERIES** | |
| 74AS240 | 45¢ |
| 74AS373 | 45¢ |
| 74AS573 | 45¢ |
| 74AS869 | 45¢ |
| **74ALS00 SERIES** | |
| 74ALS00 | 45¢ |
| 74LS30 | 42¢ |
| 74ALS32 | 37¢ |
| 74ALS74 | 75¢ |
| 74ALS157 | 40¢ |
| 74LS175 | 42¢ |
| 74ALS244 | 42¢ |
| 74ALS876 | 42¢ |
| **74BCT00 SERIES** | |
| 74BCT244 | 43¢ |
| **74LS00 SERIES** | |
| 74LS05 | 42¢ |
| 74LS14 | 42¢ |
| 74LS32 | 42¢ |
| 74LS74 | 42¢ |
| 74LS86 | 42¢ |
| 74LS92 | 42¢ |
| 74LS123 | 59¢ |
| 74LS125 | 42¢ |
| 74LS126 | 59¢ |
| 74LS244 | 59¢ |
| 74LS245 | 65¢ |
| 74LS373 | 79¢ |
| **74HC00 SERIES** | |
| 74HC00 | 42¢ |
| 74HC02 | 32¢ |
| 74HC05 | 42¢ |
| **74HC00 SERIES** | |
| 74HC14 | 42¢ |
| 74HC27 | 45¢ |
| 74HC30 | 45¢ |
| 74HC32 | 49¢ |
| 74HC125 | 42¢ |
| 74HC138 | 55¢ |
| 74HC139 | 42¢ |
| 74HC153 | 55¢ |
| 74HC165 | 65¢ |
| 74HC166 | 69¢ |
| 74HC174 | 59¢ |
| 74HC175 | 59¢ |
| 74HC244 | 72¢ |
| 74HC245 | 42¢ |
| 74HC251 | 59¢ |
| 74HC299 | 75¢ |
| 74HC365 | 42¢ |
| 74HC373 | 42¢ |
| 74HC374 | 75¢ |
| 74HC375 | 42¢ |
| 54HC404 | 42¢ |
| 74HC4053 | 69¢ |
| 74HC4078 | 42¢ |
| 74HC4538 | 42¢ |
| 74HC40103 | 69¢ |
| 74HCT00 | 29¢ |
| 74HCT04 | 42¢ |
| 74HCT14 | 42¢ |
| **74HCT00 SERIES** | |
| 74HCT74 | 42¢ |
| 74HCT86 | 42¢ |
| 74HCT112 | 42¢ |
| 74HCT132 | 59¢ |
| 74HCT151 | 42¢ |
| 74HCT193 | 42¢ |
| 74HCT245 | 42¢ |
| **74F00 SERIES** | |
| 74F00 | 35¢ |
| 74F04 | 29¢ |
| 74F08 | 35¢ |
| 74F13 | 42¢ |
| 74F14 | 35¢ |
| 74F32 | 36¢ |
| 74F38 | 39¢ |
| 74F74 | 39¢ |
| 74F86 | 45¢ |
| 74F109 | 42¢ |
| 74F126 | 39¢ |
| 74F157 | 45¢ |
| 74F158 | 39¢ |
| 74F174 | 45¢ |
| 74F194 | 39¢ |
| 74F245 | 59¢ |
| 74F367 | 56¢ |
| 74F373 | 59¢ |
| 74F374 | 45¢ |
| 74F541 | 49¢ |
| 74F646 | 49¢ |
| 74F776 | 49¢ |
| 74F794 | 42¢ |
| 74F899 | 49¢ |
| **4000 SERIES** | |
| 4030 | 49¢ |
| 4046 | 75¢ |
| 4053 | 59¢ |
| 4082 | 45¢ |
| 4504 | 49¢ |
| 4538 | 99¢ |
| 4558 | 49¢ |
| 4569 | 49¢ |
| 45051 | 42¢ |
| 45406 | 49¢ |
| **74FCT00 SERIES** | |
| 74FCT191 | 42¢ |
| 74FCT245 | 42¢ |
| 74FCT373 | 42¢ |
| 74FCT374 | 42¢ |
| 74FCT621 | 42¢ |
| 74FCT825 | 42¢ |
| 74FCT827 | 42¢ |
| **LINEAR SERIES** | |
| TL062 | 49¢ |
| LM324 | 55¢ |
| LM339 | 45¢ |
| LM358 | 49¢ |
| TL497 | 69¢ |
| 747 | 55¢ |
| MC1452 | 59¢ |
| TDA1576 | $1.00 |
| MC3302 | 69¢ |
| MC3303 | 59¢ |
| MC3403 | 69¢ |
| LM2901 | 49¢ |
| CA3403 | 69¢ |
| 5512 | 49¢ |
| UA14585 | 75¢ |
| MC75172 | 49¢ |
| MC75174 | 49¢ |
| LM348 | 49¢ |
| LM311 | 49¢ |
| TL3931 | 49¢ |
| SA571 | 49¢ |
| 74FR244 | 49¢ |
| 40H245 | 49¢ |
| DS14C88M | 49¢ |
| DS14C89M | 49¢ |
| AD90286-1 | 49¢ |

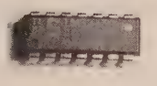
### Special Purchase SMD ICs

Prime, fully marked SMD ICs by top name manufacturers. We bought these at an incredible price and are passing the savings onto you. All are in the surface mount package (SMD).



| PART # | PINS | STOCK # | PRICE |
|---|---|---|---|
| 74HCTOOM | 14 | G4224 | 8/$1.00 |
| 72ALS74ADR | 14 | G4227 | 8/$1.00 |
| 74HC132 | 14 | G4228 | 8/$1.00 |
| 74LS175 | 16 | G4230 | 8/$1.00 |
| LM311M | 8 | G4234 | 8/$1.00 |
| LM348D | 14 | G4236 | 8/$1.00 |
| MC14569B | 16 | G4239 | 5/$1.00 |
| MC78L08 | 8 | G4096 | 3/$1.00 |
| 556 (Dual Timer) | 14 | G4095 | 2/$1.00 |

### LM324 IC



Popular Quad op amp in the plastic dip package. These prime ICs are factory marked and available at a blowout price!

**G12852 4/$1.00**

### SMD NE556DR IC

Popular dual timer IC in the SOIC-14 SMD package. These are on tape and reel.

**G2085 2/$1.00 • 10/$4.50**

### SMD LM358A IC

Prime LM358A OP Amp IC made by Philips. Standard S0IC-8 SMD case.

**G1935 2/$1.00**

### Surface Mount IC Assortment

Tremendous assortment of 25 first quality primed marked SMD ICs. You'll find linear, CMOS, LS and voltage regulators in each assortment. None are house #, all have standard part #s. Stock up now!

**G5267 $5.00**

### 7815 +15V 1amp Regulator

Special purchase prime T0220 plastic case 1amp +15V voltage regulator by TI. These are marked TL780-15C. Has full length leads which have been formed slightly to hold regulator into a PC board before soldering.

**G12733 4/$1.00**

### SMD NJM 386BE 1 Watt Amplifier

Popular 1 watt audio amplifier in an 8 pin SMD (SOIC-8) case. Made by JRC and Prime marked units similar to the LM386, however this is a SMD case. On tape & reel.

**G1456 3/$1.00 • 100 for $25.00 • Full factory reel of 2000 for $450.00**

### SMD MC7808 CD2T +8V 1amp Regulator

Prime 8VDC voltage regulator in the popular $d^2$ pak SMD package. Made by ON Semiconductor. Marked 7808C.

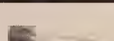
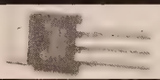
**G12744 2/$1.00**

### Atmel 2-wire Serial EEPROM Type AT24C02 P125

High reliability serial EEPROM features 2K (256x8) internally organized memory, 2 wire serial interface, Bi-directional Data Transfer Protocol, write protect pin for hardware data protection etc. These are brand new prime fully marked parts in the standard 8 pin dip package.

**G12872 79¢ ea. • 10 for $6.00 Full 15 Page spec sheet for above G12873 $1.00 ea.**

## Voltage Regulators

| | | | | |
|---|---|---|---|---|
| LM217CZ | T092 | +1.2 to 37V 0.1amp | G13008 | $1.00 |
| LM293 1AZ-5 | T092 | | G13009 | $1.00 |
| LM317LZ | T092 | +1.2 to 37V 100ma | G22103 | $0.49 |
| LM317 | SOIC-8(SMD) | +1.2 to 37V 100ma | G22104 | $0.49 |
| LM317MP | T0202AB | | G22099 | $0.75 |
| LM317T | T0220 | +1.2 to 37V 1amp | G22106 | $0.50 |
| NJM317 | T0220 | +1.2 to 37V 1amp | G22107 | $0.45 |
| SG317P | T0220 | +1.2 to 37V 1amp | G22108 | $0.40 |
| TL317 | T092 | +1.2 to 37V 100ma | G22109 | $0.49 |
| LM320H5 | T05 | | G13010 | $2.00 |
| LM320T5 | T0220 | | G22110 | $0.89 |
| LM334 2 | T092 | adj curr src | G22112 | $0.79 |
| LM336 2-2.5 | T092 | 2.5V Voltage Ref | G22113 | $0.79 |
| LM336 BZ-2.5 | T092 | 2.5V Voltage Ref | G13011 | $0.79 |
| LM337 | T0220 | -1.2V to -37V 1.5amp | G13012 | $0.79 |
| LM337LZ | T092 | -1.2V to -37V 100ma | G22114 | $0.69 |
| LM337T | T0220 | -1.2V to -37V 1amp | G22115 | $0.79 |
| LM340AT5 | T0220 | +5V 1amp | G22116 | $0.59 |
| LM340K-5.0 | T03 | +5V 1amp | G13013 | $1.49 |
| LM340KC12 | T03 | +12V 1amp | G22117 | $1.50 |
| LM340T5 | T0220 | +5V 1amp | G22118 | $0.69 |
| LM340T12 | T0220 | +12V 1amp | G22119 | $0.69 |
| LM340T15 | T0220 | +15V 1amp | G22120 | $0.69 |
| LM341T5 | T0220 | +5V 500ma | G22121 | $0.69 |
| LM342P | T0202AB | | G22122 | $0.69 |
| LM350K | T03 | 1.2 to 33V 3amp | G13014 | $3.95 |
| LM385-1.2 | T092* | 1.2V Voltage Ref | G22123 | $0.79 |
| LM385Z-2.5 | T092* | Prec. 2.5V Ref | G13016 | $1.09 |
| TL431C | T092 | Prog prec Ref | G22124 | $0.39 |
| LM2931AC-5 | T092 | +5V 100ma | G22149 | $0.49 |
| 7805 | T0220 | +5V 1amp | G13017 | $0.35 |
| 78L05 | T092 | +5V 0.1amp | G13018 | $0.20 |
| 78M05 | T0220 | +5V 0.5amp | G13019 | $0.29 |
| MC7805CK | T03 | +5V 1amp | G13021 | $1.49 |
| MC7805CT | T0220 | +5V 1amp | G13022 | $0.35 |
| MCT7805CT | T0220 | +5V 1amp | G13023 | $0.35 |
| 78L08 | T092 | +8V 0.1amp | G13024 | $0.20 |
| MC7808CT | T0220 | +8V 1amp | G13025 | $0.35 |

| | | | | |
|---|---|---|---|---|
| MC7809 | T0220 | +9V 1amp | G13028 | $0.35 |
| MC7809CT | T0220 | +9V 1amp | G13029 | $0.35 |
| 7812 | T0220 | +12V 1amp | G13030 | $0.35 |
| 78L12 | T092 | +12V 0.1amp | G13031 | $0.20 |
| L7812CV | T0220 | +12V 1amp | G13032 | $0.35 |
| L7812L-V | T0220 | +12V 1amp | G13033 | $0.35 |
| MC7812 | T0220 | +12V 1amp | G13034 | $0.35 |
| MC78L12 ACP | T092 | +12V 0.1amp | G13035 | $0.20 |
| 7815 | T0220 | +15V 1amp | G13036 | $0.35 |
| MC7815CT | T0220 | +15V 1amp | G22125 | $0.39 |
| MCT7815CT | T0220 | +15V 1amp | G22126 | $0.39 |
| MC7815K | T03 | +15V 1amp | G22127 | $1.50 |
| LM78L15ACK | T092 | +15V 100ma | G22128 | $0.49 |
| 78L15AC | T092 | +15V 0.1 amp | G13037 | $0.20 |
| 78M15 | T0251A | +15V 500ma | G22130 | $0.49 |
| 7818 | T0220 | +18V 1amp | G22131 | $0.35 |
| MC7818BT | T0220 | +18V 1amp | G22132 | $0.35 |
| 7824CK | T03 | +24V 1amp | G22133 | $0.35 |
| L7824CV | T0220 | +24V 1amp | G22134 | $1.50 |
| 7824 | T0220 | +24V 1amp | G22135 | $0.35 |
| LM7824 | T03 | +24V 1amp | G22136 | $1.50 |
| 7905 | T0220 | -5V 1amp | G13038 | $0.35 |
| 79L05ACP | T092 | -5V 0.1amp | G13039 | $0.20 |
| L7905CT | T0220 | -5V 1amp | G22137 | $0.49 |
| MC7905BT | T0220 | -5V 1amp | G13040 | $0.35 |
| MC7905C | T0220 | -5V 1amp | G22138 | $0.35 |
| MC7905CT | T0220 | -5V 1amp | G22139 | $0.35 |
| MC79L05ACP | T092 | -5V 100ma | G22140 | $0.39 |
| MC7906CT | T0220 | -6V 1amp | G22141 | $0.35 |
| MC79M08A | T0220 | -8V 500ma | G22142 | $0.35 |
| UA7908KM | T03 | -8V 1amp | G13041 | $1.79 |
| AN7912T | T0220 | -12V 1amp | G22143 | $0.35 |
| MC7912CK | T03 | -12V 1amp | G22144 | $1.50 |
| LM7915CK | T03 | -15V 1amp | G22145 | $1.50 |
| MC7918CT | T0220 | -18V 1amp | G13042 | $0.35 |
| L7922CV | T0220 | -22V 1amp | G22146 | $0.35 |

*PC LEADS

# Introducing GOLDPAK®

**Special Indroductory Price** **$2.49 ea.**

These are the lowest prices available on components. Most of these components come from high tech factories that are building computers, cell phones, amplifiers etc. We have given a code to each GoldPak to let you know what to expect. You'll be amazed at how much you can save by buying these, but you will need to take the time to sort or identify the components. This is why we are able to offer them so cheap. We don't take the time to sort or identify.

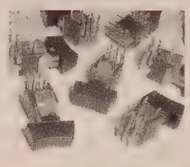
Please no returns on these GoldPaks, however you will be impressed at the incredible bargains!

| | |
|---|---|
| CODE 1 | HSE numbered 100% prime parts. |
| CODE 2 | PC lead 100% prime parts. |
| CODE 3 | HSE numbered and unmarked prime parts. |
| CODE 4 | Unmarked parts. |
| CODE 5 | Bent pins on some parts, prime parts, some soldered to parts and some damaged parts in each bag. About 70% of the items are usable. |
| CODE 6 | PC lead, some long lead, some unmarked but mostly 100% prime. A few may have been soldered to. |
| CODE 7 | 100% Prime parts. |

### 3.5MM MINIATURE STEREO JACKS

Miniature 3.5MM Stereo jacks with solder eyelets. Package of 50. CODE 5.
**Stock # GP3 $2.49**

### Mini DPDT Rocker Switch

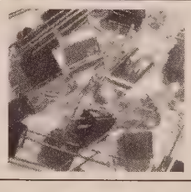


Miniature DPDT rocker switch for PC board mounting. Right angle mounting. Has black plastic rocker.
Package of 8. CODE 5.
**Stock # GP4 $2.49**

### DC Power Jacks

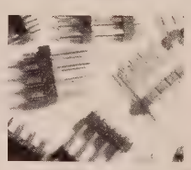
Bag of DC power jacks with 2.5MM center post. Designed for 5.5MM (outer dia) jacks. Pkg of 40. CODE 5.
**Stock # GP5 $2.49**

### Super LED Blowout



Contains jumbo, T1, right angle and others. You'll find various types and colors. We bought a million LEDs made by various manufacturers, however some bad LEDs got into the barrel so some of these LEDs won't light up. You test them and save a bundle. Package contains 80 LEDs. Code 8 (some bad parts mixed in).
**Stock # GP43 $2.49**

### Header Assortment

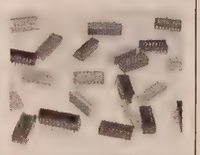


Assortment of various headers with pins on .1" spacing for PC board use. Most are dual types. Sizes vary from 2 positions up to 32 positions or more. Some are snap apart types. Package of 50. CODE 5.
**Stock # GP6 $2.49**

### Parts Mixture 1

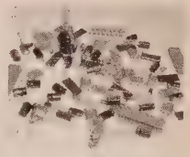
Mixture of various parts. You'll find film caps,trimmer resistors,diodes, precision resistors,hardware, resistors, tantalum caps, toroids, electrolytic caps, etc.
Package of 100 parts. CODE 6.
**Stock # GP7 $2.49**

### Dip Switch Mixture



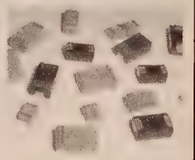
You'll find SMD types and regular types. Various mounting types and activators. Eight position and ten position types. Grayhill, Alco or other top brands. Some have protective peel off covers. Package of 25. CODE 5.
**Stock # GP8 $2.49**

### Part Mixture 2



Mixture containing various parts such as miniature and standard radial electrolytics, varistors, high voltage mylar caps, PC mount pots, crystals, PC board connectors etc. Package of 100 parts. CODE 6.
**Stock # GP9 $2.49**

### SMD Tantalum Assortment

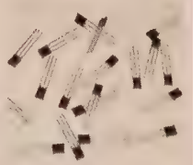


Tremendous value on these high quality marked Tantalum capacitors. Prime chip capacitors with values up to 47µf. Package of 20. CODE 7.
**Stock # GP10 $2.49**

### Fuse Assortment

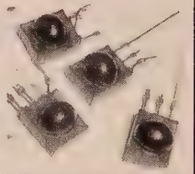
Contains all types of high quality fuses. Mostly glass types, but some may be ceramic. Small and standard sizes. Fast blow and slow blow types. Package of 25. CODE 7.
**Stock # GP11 $2.49**

### Photo Transistor



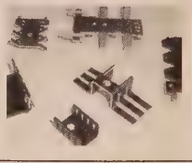
Package of prime unmarked photo transistors made by Honeywell. These are not individually marked, however they came out of sealed manufacture bags that were marked 855 8604307 (probably a house number). Package of 20. CODE 4.
**Stock # GP12 $2.49**

### IR Sensors



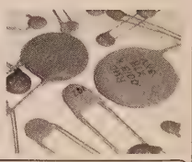
Very sensitive bubble sensors by Siemens. These were made available to us because of a malfunction in an automated lead forming and cutting machine. Electrically they are perfect. Package of 12. CODE 5.
**Stock # GP13 $2.49**

### TO220 Heat Sinks

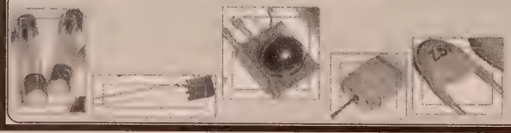


Package of various small anodized black aluminium heat sinks. You are sure to find the right one in this assortment. Package of 8. CODE 4.
**Stock # GP14 $2.49**

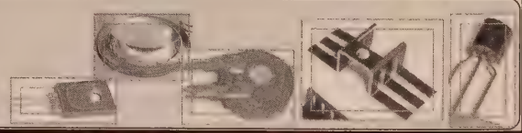
### Disc Capacitor Assortment



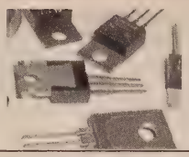
Assortment of high quality disk ceramic capacitors. Wide range of capacitances and voltages. Package of 50. CODE 7.
**Stock # GP15 $2.49**



GOLDPAK®



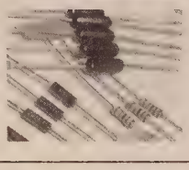
### Voltage Regulator Assortment



Assortment of high quality 100% marked and prime voltage regulators and voltage references. Some PC leads. Package of 8. CODE 7.

**Stock # GP16 $2.49**

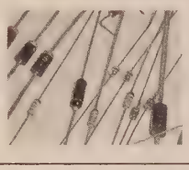
### Precision Resistor Assortment



Assortment of high quality marked precision resistors. Package of 50. CODE 7.

**Stock # GP17 $2.49**

### Package of Diodes



Prime diodes of all types. You'll find small signal, zener, 1 amp. rectifiers, transient suppressers, etc. Package of 50. CODE 6.

**Stock # GP18 $2.49**

### Small Switches

Prime switches that are designed for PC mounting. Various types, contacts and ratings. Package of 12. CODE 4.

**Stock # GP19 $2.49**

### Mylar Capacitor Assortment

Assortment of mylar film caps. Various voltages and values. Package of 30. CODE 7.

**Stock # GP20 $2.49**

### Robot Motors

Various small motors for making robots or other moving type projects. Package of 3. CODE 4.

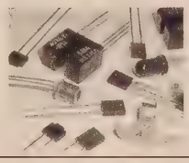
**Stock # GP21 $2.49**

### Glass and Plastic Lenses

Various glass and plastic lenses from an optical company. Package of 6. CODE 4. May have slight edge chips.

**Stock # GP22 $2.49**

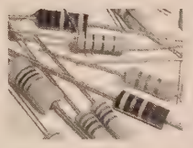
### OPTO Assortment



Various opto parts. You'll find interupters, IR LEDs, IR sensors, IR emitters, IR detectors, etc. Package of 20. CODE6.

**Stock # GP23 $2.49**

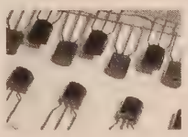
### Power Resistors



Various assorted power resistors with several different values and power ratings. Molded types. Package of 40. CODE 7.

**Stock # GP24 $2.49**

### House # Tape & Reel Transistors



We receive hundreds of thousands of various T092 house # transistors from factories that shut down or change product lines. Package of 50 of one type. CODE 1.

**Stock # GP25 $2.49**

### Part Mixture 3

Super mixture of prime coils, caps resistors, diodes etc. Package of 50. CODE 3.

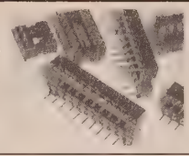
**Stock # GP26 $2.49**

### LED Mixture 1

Great assortment of various color size LEDs. Some may be PC lead and some will be SMD types. All 100% prime . Package of 50. CODE 4.

**Stock # GP27 $2.49**

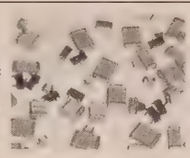
### IC Socket Assortment



Various IC sockets from small to large, even includes some PLC types. Super assortment of prime low profile types. Package of 20 sockets. CODE 4.

**Stock # GP28 $2.49**

### SMD Mixture



We don't take the time to sort this 100% prime material as it comes in. We just place it in 55 gal drums. Consists of various SMD resistors, capacitors, diodes, transistors, leds, etc. Package of 50. CODE 4.

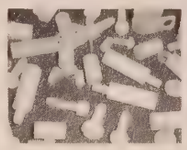
**Stock # GP29 $2.49**

### 7 Segment Displays

Various prime 7 segment displays. Mostly red color but some may be yellow or green. Great way to stock up. Package of 12. CODE 3.

**Stock # GP30 $2.49**

### Plastic Hardware Assortment



Very useful and hard to obtain, this assortment has plastic screws, nuts, clamps, tie wraps, etc. Package of 50. CODE 4.

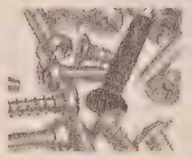
**Stock # GP31 $2.49**

### Metal Hardware Assortment

Another very useful assortment, this one contains various, screws, nuts, fasteners, standoffs, etc. Package of 100. CODE 4.

**Stock # GP32 $2.49**

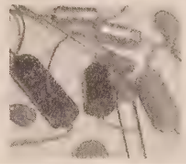
### Bag of Screws



Bag of various small screws. Many are hard to find metric types. All 100% perfect. Package of 100. CODE 4.

**Stock # GP33 $2.49**

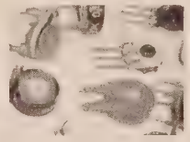
### Tantalum Cap Assortment



Assortment containing all types of small axial and dip tantalums, all prime and marked, mostly PC leads. Package of 20. CODE 7.

**Stock # GP34 $2.49**

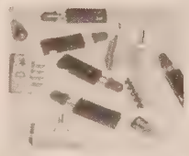
### Single Turn Trimmer Assortment



Assortment of various small size trimmer resistors. All marked and prime. Horizontal and vertical mount types. Package of 25. CODE 7.

**Stock # GP35 $2.49**

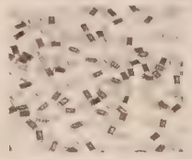
### Unique LEDs



Assortment of various unique LEDs . You will find LEDs with connectors, LEDs with bayonet bases, LED strips, LED Bars, etc. At least 5 different types in each assortment. Package of 15. CODE 7.

**Stock # GP36 $2.49**

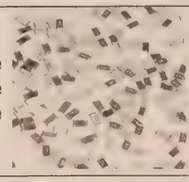
### SMD Resistor and Capacitor Assortment



Assortment containing various prime SMD resistors and capacitors. These are 100% prime parts but because of the tiny size many manufacturers do not mark them. Package of 50. CODE 7.

**Stock # GP37 $2.49**

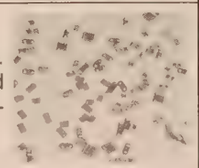
### SMD Resistor Assortment



Assortment containing various SMDs. All are 100% prime in the 1206 case size. Many will be unmarked because many manufactures do not mark tiny SMD parts. Package of 75. CODE 7.

**Stock # GP38 $2.49**

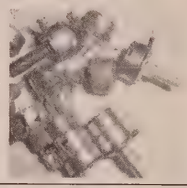
### SMD Capacitor Assortment



Assortment containing various SMD capacitors. All 100% prime. These are in several different case sizes. All are ceramic, and of course, the manufacturers do not mark these tiny parts. Package of 40. CODE 7.

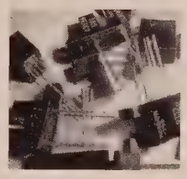
**Stock # GP39 $2.49**

# GOLD PAK®

### Miniature Potentiometers

Various miniature 3 lead potentiometers. All will have 1/8" shaft and were meant for panel mounting so they have a bushing. Some even have switches. Sorry, no hardware available. At least 5 different types. Package of 10. CODE 3.
**Stock # GP40 $2.49**

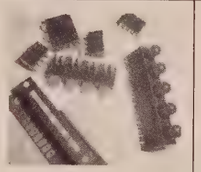
### High Voltage Radial caps

High voltage radial electrolytics for strobes, lasers, and high voltage power supplies. At least 4 different capacitors with at least 100V or greater voltage rating. Package of 8 prime capacitors–some with PC leads. CODE 7.
**Stock # GP41 $2.49**

### Opto interupters

Package of high quality prime opto interupters. These are long lead with markings on them. Most are made by Honeywell. Several different types in each package. Package of 20. CODE 7.
**Stock # GP44 $2.49**

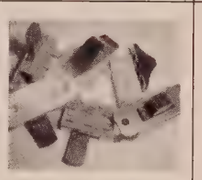
### Small Relays Assortment

Various small relays with coil voltages from 5VDC up to 12VDC. Various coil ratings, contact ratings and contact arrangements. All prime and made for PC board mounting. Package of 8. CODE 7.
**Stock # GP45 $2.49**

### Bargraph/LED Bar Displays

Great assortment of various types and colors of bargraphs, LED bars, and multiple LED displays. Each display contains at least 3 LEDs and some go up to 10 bars. LED and bar types all 100% prime. Package of 8. CODE 7.
**Stock # GP47 $2.49**

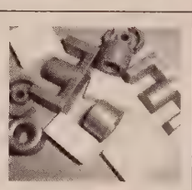
### Thermal Cutoff Switches

Heavy duty thermal cutoff switches to protect equipment. These are 100% prime marked parts with at least 2 different types. Package of 4. CODE 7.
**Stock # GP48 $2.49**

### Slide Switch Assortment

Several different 100% prime standard size slide switches. Some are PC mount and some are panel mount. Right angle types also. Package of 15. CODE 7.
**Stock # GP49 $2.49**

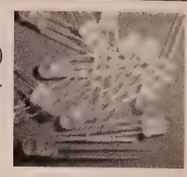
### Super Coil Assortment

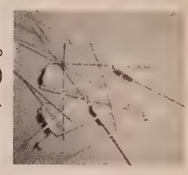
Assortment of fixed coils, some with ferrite beads, some with PC leads, and some with epoxy coating and color coding. All 100% prime and at least 10 different coils in each package. Package of 50. CODE 7.
**Stock # GP50 $2.49**

### Ferrite Cores/Bars

Package of ferrite cores, toroids, E cores pot core pieces, ferrite cable beads etc. Package of 10 pieces from small to large with at least 5 different types in each bag. CODE 3.
**Stock # GP51 $2.49**

### Powerful IR LEDs

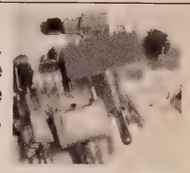
Several different types of prime IR LEDs produce high output invisible IR energy. Various case styles from mini to jumbo. Lenses are clear, smoke colored, blue or black. Package of 20 LEDs. CODE 7.
**Stock # GP54 $2.49**

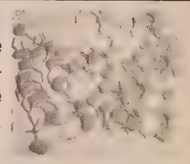
### Super Bright BiPolar LEDS

Package of 12 super bright Red/Green jumbo T1 3/4 (5mm) LEDs. These have a diffused frosted lens and 3 long leads. Prime 100% perfect and bright. CODE 7.
**Stock # GP55 $2.49**

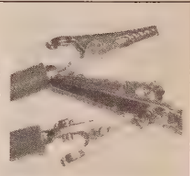
### Mini Fuses

Axial lead fuses the size of 1/4w resistors. These are 100% prime marked types with some leads formed (but not cut) for PC boards. At least 3 different values in each package. Package of 10. CODE 7.
**Stock # GP56 $2.49**

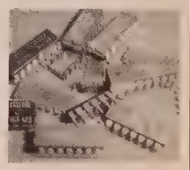
### Reed Switches

Several different glass reed switches that have SPST contacts that close when a magnet is brought near. Great for making all types of alarm sensors. Some may have PC leads. Package of 6. CODE 4.
**Stock # GP57 $2.49**

### Mini Switch Assortment

Various tiny switches such as pushbutton, toggles, slide etc. Various contacts and ratings. Some are panel mount and some are PC mounting. No mounting hardware supplied. 100% prime brand new and made by makers such as Alco, C&K, Grayhill, etc. Package of 8 with at least 5 different types. CODE 7.
**Stock # GP58 $2.49**

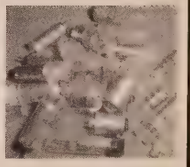
### Small Mono Capacitors

Several different types of mono caps for IC bypass. All are 100% prime marked parts with longer (1/2") PC leads. Epoxy case. All appear to be 104 (.1µf) types but the caps are from several different manufacturers so the cases will vary. Package of 50. CODE 7.
**Stock # GP59 $2.49**

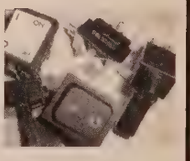
### Heavy Duty 2" Clip with Insulator

Package of prime spring type alligator jaw test clips with wire hold down screw and red plastic insulated handle. Great for hundreds of applications. Package of 20. CODE 7.
**Stock # GP65 $2.49**

### Linear ICs

Various types of 100% prime standard marked linear ICs with at least 10 different types in each package. You may find high quality regulators, OP amps, comparators, amplifiers, etc., in each package. Package of 15 pieces. CODE 7.
**Stock # GP61 $2.49**

### Toroid Surprise

Assortment of ferrite toroids up to 1 3/4" in Dia. All are 100% prime quality parts that are brand new. Great for winding custom filters, transformers, chokes, etc. Package of 6. CODE 4.
**Stock # GP62 $2.49**

### Small Incandescent Lamps

Small lamps with various voltage/current requirements from 3V up to 24 V typical. Some are bayonet, some are wire leads, and some are panel mount. All are 100% prime. Package of 25. CODE 7.
**Stock # GP63 $2.49**

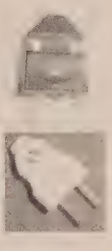
### Super Heavy Duty Switches

Heavy duty switches with ratings up to 15amps @ 250VAC. These large switches vary from bat handle to trigger and rocker types. Prime 100% perfect product. Package of 5. CODE 7.
**Stock # GP64 $2.49**

### Screw In Lamp Socket Adapters

Adapts any lamp socket to allow you to plug in 2 AC cords. Simply unscrew light bulb, screw in adapter, screw light bulb back in and now you have 2 polarized 2 prong AC outlets. Great for shop lights or anywhere you need extra outlets.

**G2257 Ivory 660W 125V $1.00 ea.**
**G2258 Ivory* 250W 125V $1.25 ea.**
***w/pullchain switch**

### Quick Wire Attachment Plug



If you have a lamp, plug appliance plug or any AC plug that needs to be replaced, this is the best solution. Simply cut the old plug off, place the cord inside this special plug and tighten the screw. The plug automatically forms a good connection with the cord. Reliable, easy to use, high quality plug available in 2 colors. Brand new in sealed bag with instructions.

**G2245 White $1.00 ea.**
**G2246 Brown $1.00 ea.**

### SL Waber 6 Outlet Multiple Outlet Strip

Great quality outlet strip by SL Waber safely converts one outlet into six. Features 15amp 120V (1875 watts continuous duty) rating. These are not surge protected, however we find hundreds of applications that this one fits the bill for! Brand new with 2 year warranty. Beige color.

**G1822 $3.98 ea.**

### Special Laptop Power Adapter Line Cord

This line cord has the special female socket that plugs into many laptop AC adapters. Its male end is non polarized allowing it to be used universally. If you have lost your line cord, you know how difficult it is to find one of these. Length is 5 1/2 ft. long. Brand new SPT-2 black color.

**G12899 $1.00 ea.**

### Shielded 3 Conductor Equipment/Computer Power Cables

These are found on almost all computers, test equipment, power supplies, etc. We have just purchased thousands of these brand new prime shielded black molded cables. Made by Belden for use by an OEM which closed. These all have UL/CSA approval and are perfect for new construction or replacement use.

**Type 1 6ft. 18-3SVT G12797 $1.25 ea.**
**Type 2 7ft. 18-3SJT G12798 $1.49 ea.**

## Adapters/Power Supplies & Accessories

### Replace Any Adapter! RCA Universal Adapter

Very useful adapter made by RCA replaces almost any DC adapter made! Not only can you select any of the following voltages 1.5VDC, 3VDC, 4.5VDC, 6VDC, 7.5VDC, 9VDC or 12VDC, but also you can reverse the polarity going to any of the 6 universal power jacks. Rated maximum current of 300ma. Well filtered, high quality adapter. Made by RCA. Plugs into any standard 120VAC outlet.

**G4023 $5.95 ea.**

### 3VDC 100ma Power Adapter

Handy power adapters for hundreds of applications. Adaptor plugs into standard wall outlet and puts out the DC power shown. With 2.5mm mini plug on end of cable.

**G6673 $1.00 ea.**

### Handy Wall Power Supply +5VDC, +12VDC, -12VDC

Handy power supply plugs into any standard 120VAC wall outlet and provides the following outuputs +5VDC @ .8AMP, +12VDC @ .1AMP, and -12VDC @ .1AMP. Brand new. Has built in 3 prong outlet plug on wall unit and flexible cable with 5 pin Din plug on other end.

**G1041 $4.95 ea.**

### Very Compact 5VDC 3Amp Regulated Power Supply

This small but powerful switching power supply is enclosed in a compact 3 3/4"L x 2"W x 1 7/8"D plastic case. Has removable business machine cord for connection to 120VAC and a long flexible cable with 5 pin male Din plug (which can be cut off). Brand new–incredible value! UL approved. Specs: input 100-240VAC .5Amp 47-63Hz, output +5VDC 3Amp.

**G12796 $6.95 ea.**

### Desk Top DC Power Supply 5VDC 1amp and +12VDC .2amp , –12VDC .2amp

Ideal to power computer boards. Input 120VAC. Built on Heavy duty high impact plastic case. Has molex 6 pin connector on output.

**G9023 $6.95 ea.**

### Heavy Duty Power Adapter 6-9VDC PEAK@ 10.8W MAX

Made by ICOT this power adapter can deliver almost 2 amps at 6VDC. Non regulated output has a female barrel plug on one end and a standard 3 cond line cord on the other. Size 4 1/2" x 2 7/8" x 2 1/8". These are used excellent condition. Has ferrite noise reduction bead on output wire.

**G8606 $4.95 ea. • 10/$45.00 • 100/$395.00**

### 12VDC 300ma AC Adapter

Standard 120VAC adapter features white colored case, UL approval and female 5.5mm barrel plug with 2.5mm center+.

**G1627 $2.95 ea. • 100 for $249.00**

### Heavy Duty 12VDC 800ma Power Adapter

Brand new power adapter make for Technics features long cord with 5.5mm female barrel plug for 2.0mm center pin jacks. Plugs into standard 120VAC outlet. Special Price!

**G12950 $2.49 ea.**

### 12VDC 800ma Adapter

Heavy duty adapter for powering many types of nicad charger units. These are brand new, but the part of the label that had the brand name was cut off. Features operation from standard 120 VAC, 60Hz, 15W. Output features a female 5mm barrel plug with center positive (+). New boxed units!

| STOCK # G8648 | | | |
|---|---|---|---|
| 1 - 24 | 25 - 49 | 50 - 99 | 100 UP |
| $5.95 | $5.36 | $4.76 | $4.17 |

### 12VDC 800ma AC Adapter

Heavy duty adapter features standard line cord on one end to plug into wall outlet and a 5ft. flexible lead on the other end. These are electrically perfect, but they were removed from equipment and may have a few scratches on the case.

**G8335 $2.95 ea.**

### Heavy Duty 12VDC 500ma Adapter

Model A-41-500 features operation from 120VAC and flexible cord with 5mm female barrel plug with larger type (3mm) center, which is +.

**G9596 $2.95 ea.**

### Heavy Duty 12VDC 800ma AC Adapter

Made to fast charge cell phone batteries, this adapter plugs into standard 120VAC wall outlet and provides 12VDC at up to 800ma. Has 5mm female barrel plug with center (+).

**G9578 $5.95 ea.**

### 12VDC 1.2amp Charger Adapter

High power 12VDC adapter plugs into standard 120VAC outlet and puts out 12VDC at 1.2amps. These do not have a built in filter capacitor, so if you need a filtered supply, add a capacitor across the output. Brand new, compact only 3 1/4" x 2 1/4" x 1 15/16". With 5mm barrel plug center (-).

**G1566 $3.49 ea.**

**1500µF 35VDC Radial Filter Capacitor**
for Above

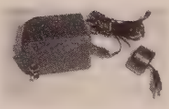
**G1580 2 for $1.00**

### 15VDC 800ma Adapter

Heavy duty adapter plugs into standard 120VAC wall outlet and puts out 15VDC at 800ma. Has standard 5.5mm female barrel plug center (+) and extra long cable (31 ft.) flexible cable.

**G1844 $4.95 ea.**

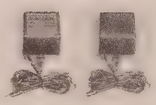
### 15VDC 400ma Adapter



Made for SEGA CHANNEL, this adapter plugs into any 120VAC outlet and puts out 15VDC at up to 400mA. Has 5mm miniature female barrel plug with center (+). Near the barrel plug, the flexible cord is wound around and enclosed ferrite bead for RF interference control.

**G1357 $2.49 ea.**

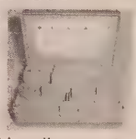
### 15VDC 500ma AC Adapter Blowout



Powerful adapter plugs in 120VAC outlet and puts out 15VDC @ 500ma. Features 5.5mm (dia) female barrel plug with center (+). These are brand new and prime, however some of them have a label and some of them were made for a custom manufacturer and they were not labeled. Sorry, no choice as we are selling them at a blowout price.

**G4171 $1.25 ea.**

### International Power Converter Set



If you're travelling abroad, you'll want this nifty set! It consists of a handy compact case which contains an adapter for about every power outlet you'll find in every part of the world, plus a converter for 220V to 110V. Handles up to 1600 watt and is designed to run your computer equipment, hair dryers and more. Brand new, made by Curtis–one of the top names in travel accessories!

**G4365 $9.95 ea.**

### Powerful Lambda +5VDC and +3.3VDC Regulated Power Supply

Part # PW G0050 by Lambda features +5VDC at 7amps and +3.3VDC at 10amps output. Input is 100 to 240VAC 50-60Hz. Open frame switching supply with .156" headers for output and input. Size only 6" x 3 1/2" 1 1/4". Weighs 0.82 lbs. Brand new in manufacturer's box.

**G12705 $12.95 ea.**

### AC to DC Power Adapters

Handy for replacement or new construction, these feature a variety of output voltages and current. All plug into standard 120VAC and feature long, flexible cords with a female barrel power plug.

| Voltage | Current | Power Plug OD | Power Plug ID | Center Polarity | Stock | Price |
|---|---|---|---|---|---|---|
| 9VDC | 150ma | 5.5mm | 2.0mm | + | G4161 | $2.95 |
| 9VDC | 200ma | 5.0mm | 1.6mm | – | G4162 | $2.95 |
| 9VDC | 300ma | 5.5mm | 2.0mm | + | G4163 | $3.25 |
| 9VDC | 450ma | 5.5mm | 2.0mm | – | G4164 | $3.49 |
| 12VDC | 200ma | 5.5mm | 2.0mm | + | G4166 | $2.95 |
| 12VDC | 200ma | 5.5mm | 2.0mm | – | G4167 | $2.95 |
| 12VDC | 500ma | 5.5mm | 2.0mm | + | G4168 | $3.49 |
| 19VDC | 200ma | 5.5mm | 2.0mm | – | G4170 | $3.25 |

### Car DC-DC Voltage Converter

Precision IC type converter for cars, plugs into cigarette lighter jack and puts out 8.5VDC. Uses IC circuit for super regulation- up to 250mA output! Great for many CD players, tape players, radios, etc. Brand new-Prime Female barrel plug on cable has (+) center lead (-) outer lead.

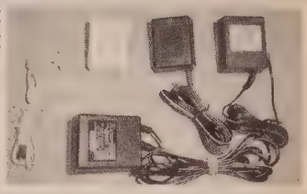
**G6668 $1.00 ea. • 10/$8.00 • 100/$72.00**

### Our Most Powerful Switching Power Supply 200W

Made by Intergraph, this power supply operates on 100 to 240VAC and features regulated outputsof +5.0VDC@30.0Amps,+3.3VDC@ 19.0Amps, +12.0VDC@5.0Amps, -12VDC@0.5Amps and -5.0VDC@0.5Amps. Has 2 built in fans for cooling and is compact for this powerful of a supply. Size only 7 1/2" L x 6 1/8" W x 3 1/2" H. Has a bundle of cables with connectors coming out of the metal enclosed chassis. Unfortunately, we do not have the hookup info or data so we are selling these units cheap. Brand new–prime!

**G12865 $21.95 ea.**

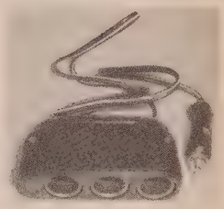
### Adapter Assortment



Handy assortment containing 4 different adapters. Each adapter plugs into a standard 120VAC wall outlet and puts out a DC voltage. Various voltages. Most have female barrel plug. An experimenter's delight.

**G13694 $4.95**

### Car Cigarette Plug to 3 Female Socket Adapter



Now you can run your laptop, power your cell phone, recharge a spare computer battery, etc. at the same time! Features 1 male plug that you insert into your car's cigarette lighter socket. Box has 3 female cigarette plug sockets. Comes with "built in" LED battery monitor so you can monitor the condition of your cars battery. We've seen these in other catalogs at $19.95 each without the LED battery monitor feature. Brand new with optional mounting screws.

**G4253 $6.95 ea.**

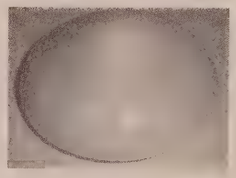
### Small Regulated Switching Power Supply

Small switching power supply made by Computer Products part # NFS25-7608 operates from 100-240VAC 50/60Hz 1.0 - .50A. The size is only 3" x 5" x 1 1/4". These are brand new in the manufacturer's box. We are selling them at a blowout price because we did not get the data on output current, voltage and pin hookups. It is probably a 5V and 12V output type for computers, but we don't know.

**G12845 $3.95 ea.**

## Alarms, Sirens, Horns & Accessories

### Commercial Passive Infrared Sensor Model PA-6020E



Model PA-6020E is a vertical curtain protection passive infrared sensor designed to sense an intruder up to 65 ft. away. Has red LED detection alert and features SPDT contacts rated .2amp. These are attractive professional units as found in commercial buildings, museums, restaurants, etc. They are brand new in original manufacturer boxes.

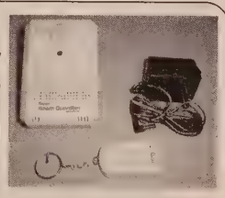
**G8637 $28.95 ea.**

### Pool Elert™ Alarm

Features a keyboard to allow you to set your own 3 digit disarm code, a programmable time delay before activation of 3, 10 or 20 seconds, and adjustable sensitivity vibration sensor which can detect the slightest movement of the door, a panic activation mode, LED indicators, a 10 second arming delay, auto re-arm and several attachment accessories. Once activated, the alarm will sound for 30 seconds or can be deactivated by entering your 3 digit code. Operates on 3 AAA batteries (not included). Attractive blue color case unit is brand new and comes in box.

**G9912 $7.95 ea.**

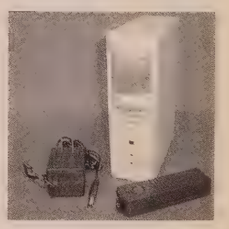
### Room Guardian™ Alarm



Features advanced microprocessor and (PIR) detection plus Infrasonic forced entry detection. The PIR sensor has a 30 foot, 360° range. The infrasonic sensor detects shock waves produced by an intruder breaking a window or forcing entry. Has a loud (100-decibel) built in alarm. Armed by a handheld (keychain) infrared remote control (approximately a 30 ft. range). There are three indicator LEDs on the top of the unit. Operates from a 9VDC AC adapter (included) or a 9-volt battery (not included). Size: 4 11/16" x 3 1/16" x 1 3/8". Brand new in retail box with complete instructions.

**G9884 $14.95 ea.**

### Security Force Bookshelf type Remote Control Passive IR Intruder Alarm



One of the most convenient effective intruder alarms we have ever seen. Simply set it in a bookcase and arm it when you leave with one press of a button on a small remote control. If an intruder enters the protected area, the passive IR sensor will detect the intruder and after a 6 second delay will emit a piercing electronic alarm. The unit resets itself after 3 minutes if no more movement is detected. When you arrive home simply aim your remote at the alarm and with a press of a button on your remote, the alarm is deactivated before it can sound. Very well engineered alarm features operation from 9V battery or AC adapter (included). Features 6 position unique code programing red LED detection light, green ready light, red low battery indicator, and handy pocket size remote control (requires 9V battery). Bookshelf alarm is about 6 3/4"H x 2 1/8"W x 5"D. Brand new in sealed retail blister package, however the 9V battery that is included may be dead from storage. Made to sell in the $100.00 range

**G8639 $29.95 ea.**

### 433MHZ Keychain Remote Control System Kit

This Remote Control System consists of a fully assembled tiny keychain remote that operates from one 12V lighter battery Type 23A (not included) and a 433MHZ Receiver Kit which operates from a 9V battery (not included). The small 3 3/8" x 2 1/4" receiver features a DPDT relay and the receiver is perfect for various applications in robotics, alarms, remote light activation, etc. Each time the button on the keychain is pushed the relay on the receiver board activates. Range is up to 50 feet away and the receiver features sensitivity control and "activation time" control so that the relay can be energized for a longer period of time (if desired). This kit also will receive the signal transmitted from the G4567 PIR Detector (to the right) and/or the G4568 Window Door Sensor and/or the G4572 Glass Break Sensor. You can use these optional sensors to build a very nice alarm system. The receiver must be assembled and comes with all parts, PC board and instructions. The system comes with one fully assembled Keychain Remote and one unassembled Receiver Kit. Skill Level 3.

**C6849 $24.95 ea.**

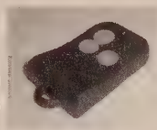
OPTIONAL PLASTIC BOX FOR ABOVE: TYPE 4 BOX C6366 $2.50
EXTRA KEYCHAIN REMOTE: G1449 $6.95
12V BATTERY FOR REMOTE: C6860 $1.49

### Sensitive Passive Infrared Detector

This sensitive PIR detector contains a sophisticated nine IC circuit and a sensitive PIR sensor. The unit operates from 1 9V battery (not included) and is about 5" X 3" X 2". The unit has a built in transmitter which was to transmit the intruder detection alert at 433MHz. (Our kit C6849 picks up this signal). We do provide you with simple directions on how to connect up a relay to this PIR unit to allow you to set off sirens, lights, etc. when the unit detects an intruder. This sensitive PIR unit has a detection range of 40 feet with a cone of coverage of about 90° wide. These are professional units that are perfect for your alarm applications.

**G4567 $14.95 ea.**

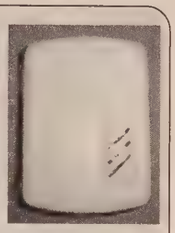
### Ultra Sleek RF Alarm Remote



This keychain type miniature alarm remote is one of the latest types made. It is brand new and operates from 1 standard 12V lighter battery (type 23,23M VR22 or EL22) not included. This sophisticated 3 button remote contains a complete RF coded transmitter with red LED "on" indicator and it was made for a car alarm. It features an elegant design, ultra thin 2 1/8"L X 1 3/8"W smooth matte finish black case. Use these with the C6849 Kit (sold at left).

**G1449 $6.95 ea.**

### 433MHZ Glass Break Sensor/Transmitter



Self contained 4 3/4" x 3 1/4" x 1 1/4" sensor uses sophisticated IC circuitry to detect the sound of breaking glass. It processes this noise signal and then transmits a 433MHZ signal to activate your receiver (such as our C6849 433Mhz Keychain Remote control System Kit to the left). Requires no wires and uses one 9V battery (not included). Beige case. Fully assembled.

**G4572 $15.95 ea.**

### Window/ Door Sensor Wireless Transmitter

Unique alarm transmitter made by Quorum contains a built in reed switch, and electronic intruder detection circuit with a built in RF transmitter, and an enclosed permanent magnet. Unit operates from a 9V battery (the one inside the box is dead from storage) and was meant to transmit to a receiver (Our kit C6849 will pick up the signal from this unit). Beige case is about 4 1/2"L X 1 1/2"W X 1" Dia. Brand new with mounting hardware included. Model AS-103 RR-150. High quality unit, perfect for alarm applications.

**G4568 $6.95 ea.**

### Elert™ Personal Alarm System

Very sensitive alarm features a built in vibration sensor and computer type circuitry. Features keyboard to allow you to set your own 3 digit disarm code, a programmable time delay before activation , an adjustable sensitivity vibration sensor, a panic activation function, LED indicators, a 10 second arming delay and several attachment accessories to allow you to install it on a door, a bike, a laptop computer, a window, etc. Once activated, the unit emits an incredibly loud obnoxious electronic siren which will sound for 30 seconds or can be deactivated by entering your 3 digit code. Operates on 3 "AAA" batteries (not included) and has a unique screw lock battery cover to prevent someone from removing the batteries to disarm the unit. Brand new with complete easy to understand instructions. The unit is black with silver lettering with an approximate size of 3 3/4" x 2" x 3/4". This is a very high quality, precision made unit.

**G9908 $6.95 ea.**

### Zenith Pendant Autodialing Personal Assistance Security System

This is a great help for anyone living alone! If you fall or have an accident, simply press the button on your heart shaped wireless call pendant. It sends for help by activating the base station to call up to 4 telephone numbers that you preprogram into the unit. Once a called party answers their phone, they hear your prerecorded emergency message and they can push a key on their phone to listen in and determine what to do next. As soon as your pendant button is pressed, an alarm tone is also sounded from the base unit.Pendant can operate up to 50 ft. away and is completely wireless. Brand new made by Zenith so you know it is top quality. Requires no monthly fees!

**G12844 $79.95 ea.**

### Motion Activated (PIR) Alarm

This compact high tech unit is a complete alarm that takes just seconds to set up. The unit runs off of one 9V battery (not included) and requires no wiring or special installation ,making it fully portable if desired. Unit also comes with mounting hardware if a more permanent installation is necessary. When this unit detects an intruder, it triggers a built-in VERY LOUD 110DB alarm siren. The PIR sensor detects intruders up to 60 feet away and in a 110 degree arc. The vertical detection zone is also adjustable to allow compatibility with pets. Unit has programmable security code (up to 12 digits) and a 10 to 15 second entry alarm delay to allow you to disarm the unit. Perfect for home, RV/Camper, office and added security when you travel. Size is approximately 5" X 3" X 2 1/8". Brand new in retail blister pack complete with operation instructions mounting hardware, and two adhesive mylar warning stickers.

**G1383 $12.95 ea.**

### PIR Human Detector

Small fully contained PIR detector senses humans up to 40 ft. away and the lens lights up a soft red to indicate that the person has been detected. Even though this unit does not set off an alarm it can be used as a deterrent to break ins as it looks the same as the PIR detectors you see in museums, restaurants, homes etc. The intruder will think that a silent alarm has been set off. New ready to go unit with wall anchor for hanging on wall. Requires one 9V battery (not included). Alkaline types will last up to several months depending on amount of activations.

**G12959 $8.95 ea.**

### Motion Activated PIR Sensor Alarm/Chime

This compact unit uses PIR technology to detect when people pass in front of its built in sensor. This battery operated (requires 4 "AA" batteries–not included) unit requires no wiring or special installation. User can select between chime mode and 110DB alarm siren. PIR sensor has a range of 30ft in a 110 degree arc. Perfect for home, office, RV/Camper, or any other place where you would like to know the presence of people. Brand new in retail blister pack with instructions, mounting hardware and two adhesive mylar warning stickers.

**G1385 $9.95 ea.**

### Super Sensitive Proximity Alarm

This is the best proximity alarm we have ever evaluated. It can detect your hand at one foot away. The alarm consist of an attractive compact 3 3/4" x 2 1/4" x 1" off white case with built in electronic alarm and antenna clip. The sophisticated highly sensitive circuit is activated when your hand or body comes near any ungrounded metal object which you have clipped the antenna lead to. Complete with silencer switch so that you can adjust the sensitivity of detection by a flashing LED without the alarm sounding. When you have adjusted the sensitivity control properly using the built in flashing LED simply turn on the alarm switch to provide alarm sounding. Brand new, very nice!

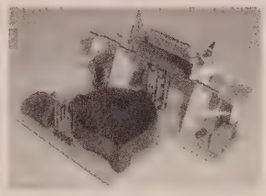
**G1757 $12.95 ea.**

### Laptop Alarm or Kiddie Finder

Made originally to let a parent know when their child has wandered away, this device would be well suited for a laptop computer alarm. Consists of the small transmitter pendant which requires 12V mini battery (not included) and a clip on receiver unit which requires a 9V battery (not included). On the receiver you can select between a 30ft. or 60ft. range by means of a switch. When the transmitter pendant goes out of range the receiver unit sounds an alarm. Very high tech circuitry. Its up to you to figure out how to mount the pendant to the laptop (epoxy or double stick foam). Great experiment item with hundreds of uses! Brand new bright yellow cases with colorful LED indicators.

**G1626 $8.95 ea.**

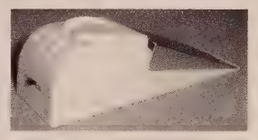
### Commercial Fire Alarm/Strobe Warning Unit



This circuit board produces a deafening electronic warning sound and bright flashes of white light (about 75 per minute) when 12VDC up to 18VDC is applied. Size of board is about 3 5/8" x 2 7/8" x 2" tall. Features 2 separate power input pins to allow for operating the strobe portion of circuit or the warning sound alone if desired (however both can be operated at the same time for the ultimate in warning devices). Brand New.

**G2210 $8.95 ea.**

### Door Wedge Alarm



Small plastic wedge alarm is inserted under any door you wish to protect. As soon as an intruder attempts to open the door from the outside, the alarm alerts you with a loud sound. Operates on one 9V battery (not included). Brand new worth much more than our price!

**G8449 $4.95 ea.**

### Security Guard Lamp Control

Turns any lamp off at dawn and on at dusk. Simply plug lamp into Security Guard and then plug Security Guard into wall outlet. Made by Gemini. Size: 3 1/2" x 1 1/2". White color.

**G7940 $4.95 ea.**

### Safety & Security Lock'N Alarm™

This small, yet very powerful alarm and lock is designed to be mounted on metal framed windows and sliding glass doors. When this unit is activated by the vibration of someone trying to open your sliding door/window, a high output 120DB alarm siren is triggered. Great for preventing unauthorized entry. For additional security, the screw locking mechanism keeps window or sliding glass door secure. Operates on 12V battery (included). Brand new in retail blister pack complete with instructions and 2 adhesive mylar warning stickers. Size is $1\frac{5}{8}$" W X $1\frac{3}{16}$" T X $1\frac{7}{8}$".

**G1378 $5.95 ea.**

### Loud Micro Siren

Complete, ready-to-go micro siren operates on any voltage between 6VDC and 12VDC (will even operate on a 9V transistor battery). Produces a pulsating electronic sound that can't be ignored. Perfect for indoor burglar alarms. Comes complete with an attractive silver metal grille and completely enclosed metal case. Solid state for reliable performance and self-contained-no additional speaker needed. Size of case about 3" square by 1 1/4" deep. Has 4 mounting holes. Brand new in box.

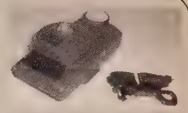
**G6106 $4.95 ea.**

### 8Ω 8 watt Outdoor Paging Speaker

High quality gold colored metal case paging speaker is rated 8Ω and 8 watt power. Size 5 1/4" diameter x 5" long. Has long flexible wire with 3.5mm male mono plug on end. New in box. Perfect for hundreds of applications

**G1753 $6.95 ea.**

### The "FORTRESS" Obnoxious Talking Security Alarm



Probably the scariest personal security alarm made! Produces a blinding xenon strobe light and features a very loud woman's voice which says "Help, Help, Police". The sound is so realistic, so convincing and so loud that you just can't ignore it. The alarm also has a built in 120dB siren, a vibration sensor for indoor use and a quick release activator strap. These are brand new and they were meant to be supplied with a small canister of pepper spray which was held on the unit with velcro, however the pepper spray has been removed and we don't have it available. Requires 4 AAA batteries (included). Brand new in original boxes with complete instructions but without the pepper spray! Size: 6" x 3" x 1.5"

| STOCK # G8641 | | | |
|---|---|---|---|
| 1 - 24 | 25 - 49 | 50 - 99 | 100 UP |
| $8.00 | $7.25 | $6.45 | $5.60 |

### Commercial Fire Alarm Strobe and Alarm Assembly

Model FHS 24 metal case unit with white plastic "Fire" lens produces a bright warning flash and obnoxious electronic alarm sound when 24VDC is applied to the terminals. These appear to be new but we can't say for sure. They may have a scratch or two but electrically they are fine. Size about 4" square x 2" thick (excluding the strobe on top). With instructions.

**G8660 $24.95 ea.**

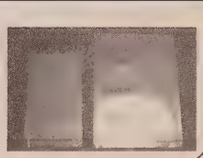
### Heat Sensor Alarm Ornament

This holiday ornament is also a heat sensitive alarm that you can hang on your Christmas Tree. If there is a fire, the Safetree ornament will emit a VERY LOUD (90 dBA per meter minimum) alarm when it detects a temperature above 122°F. Requires one 9V battery (not Included). Brand new in manufacturer's box. Sorry, no sales of this item to California.

**G9880 ~~$5.95~~ Sale! $2.95 ea.**

## Bags

### Plastic Bags to Hold Small Parts



Small clear polyethylene plastic bags to package small electronic parts. Sold in bundles of 100 only.

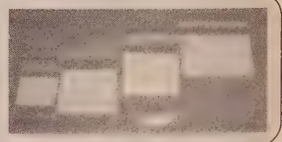
**2" x 3" G2112 $1.00**
**3" x 4" G2113 $1.50**

### Ultra Miniature Reclosable Bags

These are absolutely the smallest reclosable bags that we have ever seen! They measure only 1.5" X 1". Perfect for packaging/storing small electronic parts like SMD components or use them for other applications. Brand new package of approximately 100 bags, made by Apple Bags.

**G1280 $1.25**

### Plastic Zipper Close Bags



We now offer high quality 2Mil thick zipper plastic bags with white block to write on. These reclosable bags feature a zipper locking top for convenient storage of small electronic parts, hardware, etc. We have the following sizes. *Sold in multiples of 100 ONLY.*

| | | | | | |
|---|---|---|---|---|---|
| 2" x 3" | G663 | 100/$4.00 | 3" x 4" | G664 | 100/$4.75 |
| 3" x 5" | G665 | 100/$5.00 | 4" x 6" | G666 | 100/$6.75 |

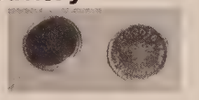
## Bar Code Items

### MSI/88e Portable Barcode Computer Terminal

The cases show signs of wear including sctratches, cracks and dirty keyboards. We are selling them "as is" for the circuit boards with components inside. The unit we opened had 5 circuit boards, a keyboard with 27 keyswitches, a display board with a 16 character alphanumeric LED display and 9 ICs including CMOS and display drivers, a 16K data RAM board with 1K x 4K chips including 16 MWS5114E ICs, 2 more RAM boards with 24 TC5514P-1 ICs 8K-24K on each board and one CPU board with a CPU IC type CDP1802ACE, a 26043IC, a 26045 IC and various other ICs. Another unit we opened used Japan 8050 24560-00-00A RAM ICs on the RAM boards, so there is some variance, however, each unit will have 3 RAM boards, 1 display board, a keyboard, and a CPU board. Operates from 4 "AA" batteries (not included). Size: 7 3/4" x 3 1/2" x 2 1/2". We have absolutely no data or info of any kind on these and we are not selling them as working. They are being sold "AS IS" only-no returns.

**G8007 ~~$9.00 ea.~~ Sale! $3.00 ea.**

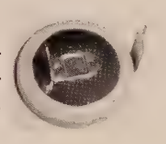
### Sony CR2016 Lithium Coin Battery



One of the most popular coin batteries for memory backup, calculators, etc. Size about 20mm (diameter) x 1.5mm thick.

**G1897 2/$1.25**

### BR2032 Lithium Coin Battery



High quality Panasonic 3V coin battery type BR2032 features yellow vinyl sleeve and solder tabs. Approximate size: 13/16" Dia. New.

**G1582 2/$1.00**

**Factory Box of 100 / $25.00**

### Giant Lithium Coin Batteries

We have 2 of these larger lithium coin batteries, used for memory backup in computers, calculators,cameras, etc. Note BR2325 has solder tabs.

| Type | Size | Stock | Price |
|---|---|---|---|
| CR2430 | 24mm (dia) | G9146 | 2 for $1.00 |
| BR2325 | 23mm (dia) | G9147 | 2 for $1.00 |

### SANYO CR2430 Coin Battery

Lithium 3V coin battery is about 15/16" in dia.

**G8551 2 for $1.00**

**10/$5.00 • 100/$45.00**

### Quick Charge AA 500MAH Battery Pack

These were made for cellular phones and consist of a 2 3/4" x 2 1/4" x 5/8" compact case. Inside you'll find 4 high quality fast charge AA nicads connected in series by metal tabs. These are very high quality and can be removed by simply cracking the case apart and pulling out the batteries. They'll have some double stick adhesive on them, but after that is removed, you'll have very nice fast charge nicads with vinyl sleeves and solder tabs. These are fresh nicads that can be charged over and over. Prime, in manufacturers original box. Part# B-111-LD. Each nicad costs you less than 75¢ or in quantity purchases of 1000, each nicad only cost you 24¢!

**G8498 $2.95 ea. • 10/$20.00**

**100/$150.00 • 1000/$950.00**

### Laser Pointer Replacement Batteries

Perfect for use in almost all laser pointers and various small electronic remotes, watches, etc. Type L1154/AG13 alkaline watch battery.

**G1748 BlisterCard of 10 for $2.95**

### Energizer AAA Alkaline Batteries

Brand new 2 pack of AAA Eveready Energizer Alkaline batteries. These are date coded for 2003 or later. Full power ready for use in pagers, remote controls, radios, etc.

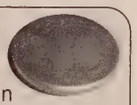
**G4511 $1.29/pack**

### Panasonic CR2477 Lithium Battery

This high capacity Lithium coin battery is rated 3V and has solder tabs. Size of battery is about 15/16" Dia. x 9/32" thick. New.

**G1583 $1.00 ea.**

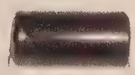
### Panasonic Lithium Coin Battery CR2032



This is one of the most popular lithium coin batteries found in thousands of electronic devices for power and memory backups. These are fresh full power units. We keep one handy at all times just to test LEDs. Perfect for replacement or new construction. Rated 3VDC. Size 20mm dia. x 3.2mm thick.

**G2096 2 for $1.00 • 100 for $40.00**

### Powerful CR123A 3V AXIAL Lithium Battery



Made for memory backup, photo, test instruments etc., this battery is rated 3Volts @ 1.3AH. Size .66" Dia. x 1.36" L. Has black vinyl sleeve, long solder pins and is fresh full capacity.

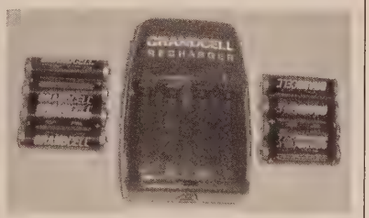
**G12947 $2.49 ea.**

### Cordless Phone Battery

Great for replacement use in cordless phones, power tools, electric toothbrushes, etc! This 3 cell nicad button pack is rated 3.6V@280mAh. Size is 1" Tall x 1" Dia., has blue vinyl sleeve, flexible color coded wires and small female connector. Prime brand new. Sold for up to $9.00 each elsewhere.

**G1508 $1.49 ea. • 5 for $7.00**

### Grandcell Rechargable Alkaline AA Batteries and Charger



We just completed a fabulous purchase of these incredible batteries. Not only does the Grandcell Rechargable Alkaline Batteries have the high capacity and long shelf life of primary alkaline batteries, but also they have the cost saving benefits of rechargable batteries. Each Grandcell battery has a shelf life of up to 5 years. Unlike Ni-Cad batteries, the Grandcell features a full 1.5V initial voltage as compared to 1.2V for Ni-Cads. The initial current rating is 1500mah. Can be recharged in the special Grandcell charger which holds 4 batteries, up to 300 times. We have been using them in our FRS radios, flashlights and portable cassette players. We prefer these over Ni-Cads and the performance results have been amazing. The alkaline maganese technology that the Grandcell batteries use represents a more enviromentally responsible alternative to the large volume of single-use cells that require disposal over the life of the electronic device. The Grandcell batteries perform best and have the greatest life if they are recharged *before* they are fully discharged. The cumulative capacity is much greater when shallowly discharged up to 300-400 times. The Grandcell battery system that we are selling is brand new factory fresh stock. It consists of a 4 slot charger (either 2 or 4 batteries can be recharged at a time) and 8 brand new (Date code DEC 2003) Alkaline AA Grandcell batteries. The charger has indicator LEDs to show when charging is complete and "fold in" 120VAC prongs so you can take the charger with you on a business trip or vacation. The charging time for partially discharged batteries is 6 to 8 hours and fully discharged batteries take 8 to 14 hours. Remember these batteries are ready to be used as soon as you recieve them, not like Ni-Cads. Brand new in sealed blister pack.

**G2326 $11.95**

### Rayovac BR1225 Lithium Battery

Small lithium battery with solder tabs as shown. Size about 1/2" Dia. voltage 3VDC. Prime!

**G7296 2/$1.00**

### Lithium Coin Cell Catteries

We have thousands of these popular long life 3V lithium coin cell batteries made for computer battery backup and powering various electronic organizers, etc. We find them very helpful to test LEDs as they won't burn out the LED, but they will light them up brightly! Brand new. (T) indicates that this battery has solder tabs.

| | | |
|---|---|---|
| G5673 | BR2320 | 2 for $1.00 |
| G5674 | UL2320(T) | 2 for $1.00 |

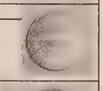
### Sony Prime Lithium Coin Cells

Made for memory backup and powering hundreds of high tech devices. Highest quality full power types made by Sony.

CR1220 12mm Dia. **G4591**

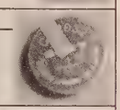
**$1.00 ea. 10 for $6.00**

CR1620 16mm Dia. **G4592**



**$1.10 ea. 10 for $6.50**

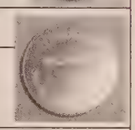
CR2032* 20mm Dia. **G4593**



**$1.25 ea. 10 for $7.50**

***Has Solder Tabs**

CR2430 24mm Dia. **G4594**



**$1.39 ea. 10 for $8.50**

CR2450* 24mm Dia. **G4595**

**$1.49 ea. 10 for $9.00**

***Has Solder Tabs**

### EVEREADY 9V Size Nickel-Cadium Rechargable Batteries

Rechargeable over and over again, these 9V size Ni-Cad batteries are top of the line recent date code brand new high power Eveready types. Rated 7.2V 120mAh. Prime standard yellow case batteries at a blowout price.

**G4260 $4.95 ea • 6/$20.00**

### Sanyo/CADNICA 7.2V 50MAH Nicad Battery

High quality rechargeable nicad features vinyl sleeve and 6 Cadnica 50AAA 1.2V 50mah cells. Each internal cell has tabs and a vinyl sleeve. Take apart the individual cells to make miniature solar rechargeable radios, robots, etc.

**G9420 $3.95 ea.**

### Pager AAA Nicad 2 Pack

These are AAA Nicad Battery 2 packs (2.4V) made for pagers. The have flexible leads terminating in a tiny 2 slot female connector. These are used and pulled out of defective pagers. The packs themselves appear to be good and we tried several and they took a full charge. We can't test these before shipping so we are selling them "As IS," however we think most of them will be 100% good. Rated 2.4V 250mah.

**G12871 2 packs of 2 batteries / $1.00**

# Batteries

ELECTRONIC GOLDMINE

### Highest Quality nmh Duracell® Cell Phone Batteries for GE & Ericson Phones

Prime Nickel Metal Hydride Advanced Technology Cell Phone batteries made by Duracell®. These are designed to fit the Ericson 197, 237/AH-203, 210, 220, 230, 237, 238, 300, 310, 320, CH 337/DF-363, 388/DH-318, 336, 338, 343, 353, 362, 368/EH237/GH337/NH237/PC337/PH337/TKA-01, 03, 011/Micro Portable. They are also for the GE CT-500, 510, 550, 700, 750, 800/DT-3000, 3325, 3500, 4000, 4500/Flipfone. Brand new in retail blister pack–black color battery only.

**Slim Duracell® DR115 550mah up to 50 min talk time** Sale

**G1465 ~~$18.95~~ ea. Sale! $8.00 ea.**

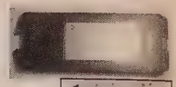
### Highest Quality nmh Duracell® Cell Phone Batteries

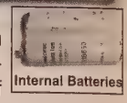
For Motorola, Pioneer and JVC. These are prime retail blister packaged Nickel Metal Hydride Advanced Technology batteries that fit Motorola MicroTac series, Micro Digital series, Tele Tac 200, DPC-550, 560, 650, PT 500, 900PT, 950PT, Alpha Star, Dimension 4000, Piper, 88015, 88017, 88019, 88022, Pioneer PCC-700, 720, 900, 920 and also JVC TN-J7, J10. We have two types, both in steel grey color.

**Slim Duracell® DR122L6 550mah up to 100 min talk time** Sale

**G1463 ~~$19.95 ea.~~ Sale! $8.95 ea.**

### High Output 7.2V 1100ma Lithium Ion Battery Pack






Battery pack made for Qualcomm® phones features two 3.6V 1100ma Lithium Ion batteries connected in series and attached to a small circuit board with lots of SMD parts. To get to the batteries simply break apart the case and remove the batteries. Size of the overall battery pack is about 5" x 1 13/16" x 3 /4". Size of each internal 3.6V battery is about 2 1/2" long x .70" diameter. Most of the internal Lithium Ion batteries are type CGR18650 by Panasonic, but some were also made by Sony. The batteries are fresh and most are already charged. Outer plastic case may have an R marked on it but the internal batteries are prime and ready to use.

**G4580 $5.00/pack**

# Battery Holders & Snaps

### 9V Snap

Standard 9V snap with color coded leads.

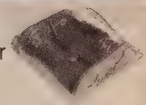
**G2210 5/$1.00**

### "AA" Battery Holder

Small black plastic battery holder for one "AA" battery. Features color coded wire leads. Size 2 1/4".

**G9705 2/$1.00**

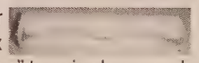
### 2 "C" Size Battery Holder



Nice quality battery holder for holding 2 "C" size batteries. Features reliable springs, flexible color coded leads and black plastic base.

**G1818 2/$1.49 100/$50.00 • 1000/$425.00**

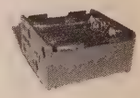
### 4 Cell "AA" Battery Holder



White plastic battery holder for four "AA" batteries. Size about 4 1/2" x 1". Features standard "battery snap" terminals on end.

**G9500 2/$1.00**

### 8 Cell Penlight Battery Holder

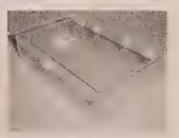


Black plastic holder for 8 standard "AA" batteries.

**G754 $1.00 ea.**

# Boxes - Cases - Enclosures

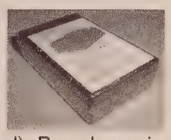
### Crystal Clear Project Box



Clear plastic project box with hinged cover is perfect for making various electronic projects or mounting finished electronic kits in. Size: 5 1/4"L x 3 1/4" W x 1 1/2"D.

**G4460 $2.00 ea.**

### Deluxe Mini Project Box



Black textured finish ABS plastic box. Overall box size is approx. 2 1/4" W x 3 9/16" L x 1" deep. The two halves attach together using recessed hole screws (included). Brand new in sealed packaging. Serpac Model 110-I.

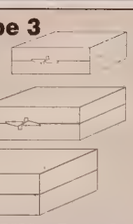
**G4416 $2.98 ea.**

### Opaque Red Plastic Project Box

Nice quality hinged type project box makes a professional looking addition to many electronic projects. Size about 4 7/16"L x 2 1/8"W a 1 7/16"D. New.

**G12803 $1.00 ea.**

### Plastic Boxes

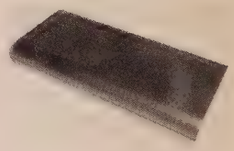



Clear hinged plastic boxes to make kits into finished projects.

| TYPE | SIZE | STOCK# | PRICE |
|---|---|---|---|
| 1 | 2"x 2"x1 1/8"D | C6363 | $1.00 |
| 2 | 3 9/16"x2 9/16"x1"D | C6364 | $1.50 |
| 3 | 3 9/16"x2 9/16"x2"D | C6365 | $1.95 |
| 4 | 5 1/8"x3 1/8"x2 7/8"D | C6366 | $2.50 |
| 5 | 6"x4"x2"D | C6367 | $2.75 |

These boxes were designed for Chaney Kits

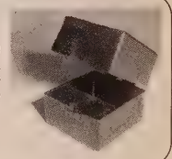
### BOPLA High Tech Project Box



Made for a hand held airport metal detection unit, this stylish box has a high tech design. Black matte finish plastic box has rounded edges and a battery compartment with removable cover (made to accommodate a 9V battery). Overall size about 6 3/4" L x 3" W x 1" Thick. Brand new, ready for your next High Tech Project. Bopla part # B03601. Worth many times our giveaway price.

**G4522 $6.95 ea.**

### Black Anti-Static Box



Perfect for storing static sensitive transistors, FETS, and ICs (up to 16 pins in size). These boxes also make excellent small enclosures for miniature electronic projects. Opaque black color with hinges and a snap closure. Overall size of box 1 1/8" cube. Brand new, and very nicely made.

**G1411 4/$1.00 • 100/$22.00 • 1000$190.00**

# Cables & Wire

### Temp-Flex Multicolor "Rainbow" Ribbon Cable

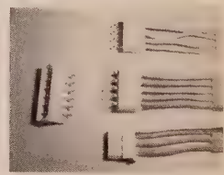
High quality silver plated stranded conductor multicolor 26ga ribbon cable. These have individual FEP insulation for high temperature high voltage applications (300V 200°C). Perfect for all types of computer interconnections, communications, and general purpose electronic applications. Has UL approval. All 100ft spools will not be one continuous length (typical 2 40ft and 1 20ft length on a spool). Note a 50 conductor 100ft spool of similar wire sells for up to $2000.00.

| | Stock# | 2ft length | 10ft length | 100ft roll |
|---|---|---|---|---|
| 14 Cond | G1138 | $1.25 | $5.00 | $45.00 |
| 20 Cond | G1139 | $1.50 | $6.00 | $55.00 |
| 24 Cond | G1140 | $1.75 | $7.00 | $65.00 |
| 34 Cond | G1141 | $2.00 | $8.00 | $75.00 |
| 50 Cond | G1142 | $3.00 | $10.00 | $90.00 |

**Same wire as above except this is slightly thinner (28 gauge)**

| | Stock# | 2ft length | 10ft length | 100ft roll |
|---|---|---|---|---|
| 34 Cond | G1143 | $1.75 | $7.00 | $65.00 |
| 50 Cond | G1144 | $2.50 | $9.00 | $85.00 |

### Minitaure Headers & Cable Assemblies



Small cables designed for use in interconnecting PC boards to sub-assemblies, etc. Each ribbon cable has a female connector attached to one end and stripped leads or pins attached to other. The female connector mates to the right angle PC male header (included). Lengths of cable are approx.

| DESCRIPTION | | STOCK# | PRICE |
|---|---|---|---|
| 3 Pin | 13" L | G170 | 2/$1.00 |
| 4 Pin | 4" L | G171 | 2/$1.00 |
| 6 Pin | 4" L | G173 | 2/$1.00 |

## Magnet Wire

We just purchased over a ton of high quality magnet wire. This always sells very quickly, so order early to avoid dissapointment. These are nice 6" diameter spools with 9 to 11 lbs. of wire on each spool. This was a special purchase as usually magnet wire is not available at these prices.

| | Approx Ft/Lb | Retail Value/Lb | Retail Value of Reel(9 lbs.) | Our Price 9 lb. Reel. | Stock # |
|---|---|---|---|---|---|
| 18 Guage | 256 | $18.00 | 9x18=$162.00 | $54.00 | G2317 |
| 19 Guage | 319 | $18.00 | 9x18=$162.00 | $56.00 | G2318 |
| 21 Guage | 507 | $18.00 | 9x18=$162.00 | $60.00 | G2320 |
| 23 Guage | 639 | $19.00 | 9x19=$171.00 | $62.00 | G2321 |
| 24 Guage | 806 | $19.00 | 9x19=$171.00 | $64.00 | G2322 |
| 25 Guage | 1012 | $19.00 | 9x19=$171.00 | $66.00 | G2323 |
| 26 Guage | 1276 | $19.00 | 9x19=$171.00 | $68.00 | G2324 |
| 28 Guage | 2020 | $20.00 | 9x20=$180.00 | $70.00 | G2325 |

## Smaller Reels of Enameled Magnet Wire

Smaller reels of enameled insulated magnet wire for making Tesla coils, transformers, coils etc. All weights are approximate.

| | | | |
|---|---|---|---|
| 29 gauge | 5lb reel | G12755 | $35.00 |
| 30 gauge | 5lb reel | G12756 | $36.00 |
| 31 gauge | 5lb reel | G12757 | $37.00 |
| 32 gauge | 2lb reel | G12758 | $15.00 |

## Enameled Magnet Wire

Generous 6 to 12 lb. reels of enamel coated insulation standard magnet wire. These are different gauges than we advertised in our summer flyer.

| | | | |
|---|---|---|---|
| 14 gauge | 12lb reel | G12748 | $60.00 |
| 16 gauge | 8lb reel | G12749 | $51.00 |
| 17 gauge | 6lb reel | G12750 | $30.00 |
| 27 gauge | 10lb reel | G12752 | $69.00 |

## 3.5mm Stereo to RCA Plugs Cable

Nice quality flexible cable features a 3.5mm stereo plug on one end and 2 color coded RCA plugs on the other end. Great for connecting speakers to CD players, radios, boomboxes, etc. Cable length: 5 ft.

**G12909 $1.99 ea.**

# Capacitors

## Surface Mount (SMD) Capacitors

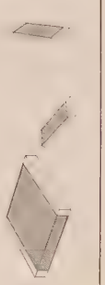
### Prime SMD Molded Chip Tantalum Electrolytic Capacitors

We have one of the largest selections and inventory levels of these prime tantalum SMD capacitors. Each SMD capacitor has been made by one of the top names: Kenet, Sprauge, Centralab or AVX. All are 100% prime but you need to hurry as we are unable to restock many of the values as they are becoming scarce! Sizes shown are approximate and sometimes vary slightly.

| Value µF | V | Case Size (mm) L x W | Stock# | Price | | Value µF | V | Case Size (mm) L x W | Stock# | Price | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 35 | 3.5 x 3.0 | G1852 | 3/$1.00 | 100/$20.00 | 15 | 35 | 7.3 x 4.3 | G1875 | 2/$1.00 | 100/$27.00 |
| 2.2 | 20 | 3.5 x 2.8 | G1854 | 3/$1.00 | 100/$20.00 | 22 | 6 | 7.3 x 4.3 | G1876 | 2/$1.00 | 100/$23.00 |
| 2.2 | 35 | 6.0 x 3.2 | G1855 | 3/$1.00 | 100/$20.00 | 22 | 10 | 6.0 x 3.2 | G1877 | 2/$1.00 | 100/$25.00 |
| 3.3 | 6.3 | 4.6 x 2.6 | G1856 | 4/$1.00 | 100/$22.00 | 22 | 10 | 7.3 x 4.3 | G1878 | 2/$1.00 | 100/$23.00 |
| 4.7 | 10 | 3.6 x 3.0 | G1859 | 3/$1.00 | 100/$22.00 | 22 | 16 | 7.3 x 4.3 | G1879 | 2/$1.00 | 100/$24.00 |
| 4.7 | 16 | 6.0 x 3.2 | G1860 | 3/$1.00 | 100/$22.00 | 22 | 20 | 7.3 x 4.3 | G1880 | 2/$1.00 | 100/$25.00 |
| 4.7 | 20 | 6.0 x 3.2 | G1861 | 3/$1.00 | 100/$22.00 | 22 | 25 | 7.3 x 4.3 | G1881 | 2/$1.00 | 100/$26.00 |
| 4.7 | 25 | 6.0 x 3.2 | G1862 | 2/$1.00 | 100/$25.00 | 33 | 7 | 6.0 x 3.2 | G1883 | 2/$1.00 | 100/$27.00 |
| 4.7 | 35 | 7.3 x 4.3 | G1863 | 2/$1.00 | 100/$25.00 | 33 | 10 | 7.3 x 4.3 | G1884 | 2/$1.00 | 100/$28.00 |
| 4.7 | 50 | 7.3 x 4.3 | G1864 | 2/$1.00 | 100/$30.00 | 33 | 16 | 7.3 x 4.3 | G1885 | 2/$1.00 | 100/$29.00 |
| 6.8 | 16 | 3.6 x 2.8 | G1865 | 3/$1.00 | 100/$22.00 | 33 | 25 | 7.3 x 4.3 | G1886 | 2/$1.00 | 100/$30.00 |
| 6.8 | 20 | 8.0 x 4.6 | G1866 | 3/$1.00 | 100/$22.00 | 47 | 10 | 7.3 x 4.3 | G1887 | 2/$1.00 | 100/$30.00 |
| 10 | 16 | 6.0 x 3.0 | G1868 | 3/$1.00 | 100/$24.00 | 47 | 16 | 7.3 x 4.3 | G1888 | 2/$1.00 | 100/$34.00 |
| 10 | 16 | 7.3 x 4.3 | G1869 | 3/$1.00 | 100/$24.00 | 68 | 10 | 7.3 x 4.3 | G1889 | 2/$1.00 | 100/$38.00 |
| 10 | 25 | 7.3 x 4.3 | G1870 | 2/$1.00 | 100/$25.00 | 100 | 6 | 7.3 x 4.3 | G1890 | 2/$1.25 | 100/$42.00 |
| 10 | 35 | 7.3 x 4.3 | G1871 | 2/$1.00 | 100/$26.00 | 100 | 10 | 7.3 x 4.3 | G1891 | $1.00 ea. | 100/$50.00 |
| 10 | 35 | 8.0 x 4.4 | G1872 | 2/$1.00 | 100/$26.00 | 100 | 16 | 7.3 x 4.3 | G1892 | $1.00 ea. | 100/$60.00 |
| 15 | 20 | 7.3 x 4.3 | G1873 | 2/$1.00 | 100/$24.00 | 220 | 10 | 7.3 x 4.3 | G1893 | $1.25 ea. | 100/$70.00 |
| 15 | 25 | 7.3 x 4.3 | G1874 | 2/$1.00 | 100/$25.00 | * Has long hookup tabs | | | | | |

### Ceramic Chip SMD Capacitors

Use value followed by "SMD CAP" for stock # (i.e. "3pf SMD CAP"). Most case sizes are "1206" or "0805".



| | |
|---|---|
| 2.2pf | 20/$1.00 • 100/$4.00 |
| 3pf | 20/$1.00 • 100/$4.00 |
| 4pf | 20/$1.00 • 100/$4.00 |
| 5pf | 20/$1.00 • 100/$4.00 |
| 10pf | 20/$1.00 • 100/$4.00 |
| 22pf | 20/$1.00 • 100/$4.00 |
| 82pf | 20/$1.00 • 100/$4.00 |
| 100pf | 20/$1.00 • 100/$4.00 |
| 330pf | 20/$1.00 • 100/$4.00 |
| 680pf | 20/$1.00 • 100/$4.00 |
| .001µf | 10/$1.00 • 100/$8.00 |
| .0015µf | 10/$1.00 • 100/$8.00 |
| .0022µf | 10/$1.00 • 100/$8.00 |
| .0047µf | 10/$1.00 • 100/$8.00 |
| .01µf | 10/$1.00 • 100/$8.00 |
| .033µf | 10/$1.00 • 100/$8.00 |
| .047µf | 10/$1.00 • 100/$8.00 |
| .082µf | 10/$1.00 • 100/$8.00 |
| .1µf | 10/$1.00 • 100/$8.00 |

### SMD Radial Electrolytic Capacitors

| | | | |
|---|---|---|---|
| G8044 | 10UF | 50V | 8/$1.00 |
| G8043 | 22UF | 6V | 10/$1.00 |
| G7877 | 22UF | 35V | 5/$1.00 |
| G5625 | 47UF | 16V | 5/$1.00 |
| G9575 | 100UF | 25V | 8/$1.00 |
| G9577 | 22UF | 50V | 5/$1.00 |
| G9255 | 47UF | 35V | 10/$1.00 |
| G8045 | 100UF | 6V | 8/$1.00 |
| G7308 | 100UF | 6.3V | 12/$1.00 |
| G7070 | 220UF | 35V | $1.00 ea. |

### Chip Capacitor Assortment

Various SMD Capacitors. Over 100 pieces in a small zip bag.

**G3118 $2.50**

### 47µF 35V Tantalum SMD Capacitor

Prime fully marked SMD capacitor in epoxy case. 7.42 mm (L) x 4.27 mm (W). Special price!

**G12994 3/$1.00**

### Rare "Old Style" Metal Type Variable Gang Capacitor

These were common in older radios, transmitters, etc. and are very high quality large size with ball bearing drive shafts. With these precision made variable capacitors you could "tune" in your station precisely without the sophistication of today's digital frequency synthesis circuits. These are new, however they were made years ago and are almost impossible to find with this quality of construction. Each has 3 gangs. Some parts may be slightly tarnished, but this does not affect their operation. Size about 3 1/8" L x 1 13/16" W x 1 5/8" H with a .38" Dia. x 3 1/8" L brass shaft. Has three 7-24pf gangs.

**G4370 $7.95 ea.**

### Super Power SMD Ceramic Capacitors

These are the latest types of multilayer ceramic capacitors. Great for thousands of applications where an electrolytic or tantalum capacitor can't be used. These are prime recently manufactured units by muRata and Panasonic. We have 3 different types. All are only .128"L (3.26mm) x 0.1" (2.54mm).

| | | |
|---|---|---|
| 4.7µF @ 10V | G12952 | 5/$1.00 |
| 10µF @ 10V | G12953 | 4/$1.00 |
| 22µF @ 10V | G12954 | 3/$1.00 |

ELECTRONIC GOLDMINE

### Special Purchase SMD 22µF 10V Tantalum

Tiny fully marked prime tantalum SMD chip cap is only 3.6mm(l) x 3mm(w) x 2mm(thick). We purchased these at a great price and are passing the savings on to you. These are on tape and reel.

**G2132 10/$2.00 • 100/$15.00 • 2000/$280.00**

### Ceramic Trimmer Capacitors

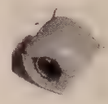
A B D E F

| | | | | |
|---|---|---|---|---|
| A | G1957 | 2-23pf | 7mm (Dia.) | 2/$1.00 |
| B | G9057 | 3-12pf | 22mm (L) x 17mm (W) | $1.00 ea. |
| D | G8448△ | 4-43pf | 9mm (Dia.) | $1.00 ea. |
| E | G9374* | 5.5-18pf | 9mm (Dia.) | $1.00 ea. |
| F | G9371 | 5-25pf | 19mm (L) x 13mm (W) | $1.00 ea. |

△ - bottom adjust
* - side mount

### Variable Tiny Trimmer Capacitors

| | | |
|---|---|---|
| 0-20pf | G2530 | 2/$1.00 |
| 2-12pf | G5035 | 3/$1.00 |
| 3-14pf | G9004 | 3/$1.00 |
| 3-25pf | G7216 | 3/$1.00 |
| 3-28pf | G9225 | 4/$1.00 |
| 4-80pf | G9340 | 2/$1.00 |
| 6-52pf | G1410 | 2/$1.00 |



*All are 7mm (Dia.) x 5mm (H)

### 1-7pf Adjustable Capacitor

Tiny rectangular trimmer capacitor is only 4mm square. Has 2 PC leads. Prime, precision made.

**G9857 4/$1.00 • 100/$22.00 • 1000/$190.00**

### Miniature 4-32pf Adjustable Cap

Miniature adjustable capacitor is only 6mm in diameter and 6mm tall. Green plastic case with adjustment slot on top. Has 2 solder pins for PC mounting.

**G2156 4/$1.00 • 100/$23.50 • 1000/$220.00**

## Disc Capacitors

### Disc Ceramic Capacitors

Order disc ceramic capacitors by using complete value followed by "DISC". Example: Order a .01µf disc ceramic capacitor by using ".01µf DISC".

**Your Choice 10 of any one value $1.00 (no mixing values)**

| | | | | |
|---|---|---|---|---|
| 3.3PF | 30PF | 91PF | 470PF | .0022µf |
| 6PF | 33PF | 220PF | 500PF | .0039µf |
| 10PF | 39PF | 270PF | 560PF | .005µf |
| 18PF | 47PF | 330PF | 680PF | .01µf |
| 20PF | 68PF | 390PF | .001µf | |

### .0022µf 500V Ceramic Disc Capacitors

Prime long lead ceramic disc capacitors are marked and compact in size.

**G4050 1000/$16.00 • 2000/$28.00**

## Mono Capacitors

### Monolythic Ceramic Radial Capacitors

Highest quality compact types made by top manufacturers for IC bypass, power supplies, computers, etc. All trimmed pc leads ready to install onto a pc board. Prime, fully marked 50V units! Size shown is width x height (excluding leads) and may vary slightly. All are 5mm lead spacing.

| CAP | (W) x (H) | Stock# | Pkg of 10 | 100 |
|---|---|---|---|---|
| .001µF | 3.5mm x 2.3mm | G4405 | $1.00 | $3.00 |
| .01µF | 3.6mm x 2.8mm | G4406 | $1.00 | $3.50 |
| .047µF | 3.8mm x 2.5mm | G4407 | $1.00 | $4.50 |
| .1µF | 4.5mm x 3.2mm | G4408 | $1.00 | $5.00 |
| .33µF | 7mm x 6mm | G7165 | $1.25 | $7.00 |
| 1µF | 4.8mm x 4.4mm | G4412 | $1.50 | $12.00 |
| 2.2µF | 9mm x 9.5mm | G4413 | $1.75 | $14.00 |

### Miniature Axial Mono Caps

Tiny axial lead monolythic capacitors. Many of these have had their leads cut and formed on 3/8" centers for PC board use, however some may not have been cut at all and some were cut but not fully bent over and formed. They are all prime marked epoxy mustard color cased units. You'll find .022µF(223), .01µF(103) and .1µF (104) values in each package. Incredible price.

**G12780 50/$1.00**

### .1µf 25V Mono Capacitor Blowout

We have thousands of these PC lead prime mono caps. They are fully marked and have about .22" lead spacing.

**G2068 30/$1.00**

## Super Caps

### Super Cap Assortment

Here's the perfect way to find the super cap that is right for your application. Any of these will store energy for tiny robots or memory backup, but now you can easily determine which cap suits your application best. You get 3 different super caps. All prime! Values up to .1 Farad (100,000uf @ 5.5VDC).

**G1404 $3.00**

### Tiny Super Cap .1 Farad 5.5VDC

One of the tiniest, but most powerful for its size, super caps we have seen. This cap is only 7/16" Dia. x 3/16"W. We charged one of these and it ran our pager motor until the energy was drained, leading us to believe that this would be a nice cap to use if you are making a tiny solar powered robot. These are so lightweight and small you could use several in parallel for even greater drive power! Can also be used for memory back up!

**G1032 $1.49 ea. • 10/$12.00**

### Compact Super Cap .047 Farad 5.5VDC

Made for memory backup, these caps can also be used in place of batteries in small solar powered projects and robots. Size only 1/2" Dia. x 3/16" tall. Brand new-prime. Made by TOKIN.

**G1399 $1.00 ea. • 10/$8.00 100/$75.00 • 1000/$650.00**

### .047 Farad 5.5VDC Super Cap

Small super cap is only 1/2" Dia. x 1/4" Tall but is rated .047 Farad (47,000 MFD) at 5.5VDC. Great for memory backup or tiny robotic applications. Prime!

**G1035 $1.00 ea.**

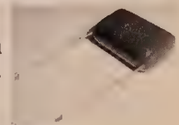
## Mylar Capacitors

### 1µF 63V Metallized Polyester Film Cap

This small cap is perfect for thousands of applications. Brand new PC length radial lead units marked 1J63. 11mm(H) x 5.9mm x 7.3mm. Lead spacing is 5.4mm.

**G2098 5/$1.00**

### 2.7µF 250V Mylar Cap



High quality compact for its value, mylar capacitor features a molded epoxy case and long leads spaced about 7/8" apart. Overall size about 15/16" L x 5/16" W x 11/16" T. Prime!

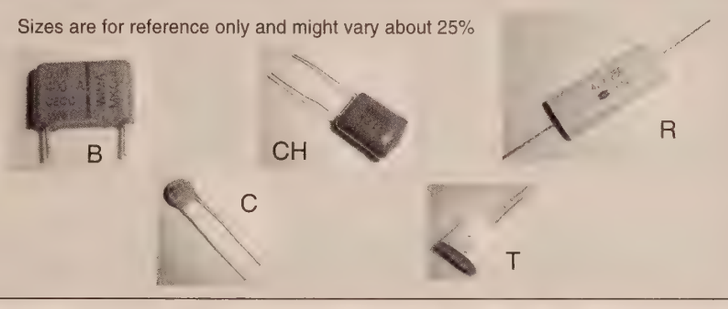
**G1825 2/$1.00 • 100/$40.00**

## High Voltage Mylar and Disc Caps

Sizes are for reference only and might vary about 25%

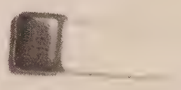
| Stock# | µF | Voltage | Type | Body | Size | Price |
|---|---|---|---|---|---|---|
| G3387 | 33pF | 5K | Disc | C | 13 | 2/$1.00 |
| G5355 | 82pF | 3K | Disc | C | 6 | 6/$1.00 |
| G4065 | .001 | 100 | Mylar | T | 8x4 | 10/$1.00 |
| G5374 | .0018 | 3K | Disc | C | 2 | 6/$1.00 |
| G4067 | .0039 | 100 | Mylar | T | 12x4 | 10/$1.00 |
| G3046 | .0064 | 1.2K | Mylar | T | 32x10 | 2/$1.00 |
| G4069 | .0068 | 100 | Mylar | T | 10x4 | 10/$1.00 |
| G4070 | .0082 | 100 | Mylar | T | 11x4 | 10/$1.00 |
| G4071 | .01 | 100 | Mylar | T | 10x4 | 10/$1.00 |
| G9830 | .01 | 100 | Mylar | Ch | 5x10x2 | 20/$1.00 |
| G6094 | .01 | 400 | Mylar | B | 13x3x8 | 10/$1.00 |
| G4072 | .012 | 100 | Mylar | T | 10x5 | 10/$1.00 |
| G8718 | .012 | 250 | Mylar | R | 5x2x10 | 5/$1.00 |
| G3361 | .015 | 100 | Mylar | Ch | 5x2x10 | 5/$1.00 |
| G6054 | .015 | 100 | Mylar | R | 12x4x10 | 10/$1.00 |
| G4073 | .018 | 100 | Mylar | T | 20x5 | 10/$1.00 |
| G4074 | .022 | 100 | Mylar | T | 15x5 | 10/$1.00 |
| G7537 | .022 | 270 | Mylar | R | 23x8x15 | 4/$1.00 |
| G4075 | .0251 | 100 | Mylar | T | 20x5 | 10/$1.00 |
| G4076 | .0319 | 100 | Mylar | T | 2x7 | 10/$1.00 |
| G3362 | .033 | 100 | Mylar | Ch | 7x3x1 | 5/$1.00 |
| G7400 | .033 | 250 | Mylar | B | 8x3x7 | 20/$1.00 |
| G338 | .039 | 100 | Mylar | R | 10x2x5 | 3/$1.00 |
| G3363 | .047 | 100 | Mylar | Ch | 8x3x10 | 5/$1.00 |
| G339 | .047 | 630 | Mylar | R | 15x5x10 | 2/$1.00 |
| G3364 | .068 | 100 | Mylar | Ch | 9x3x11 | 4/$1.00 |
| G382 | .068 | 400 | Mylar | R | 17x4x12 | $1.00 ea. |
| G383 | .1 | 100 | Mylar | R | 12x4x10 | 3/$1.00 |
| G6088 | .1 | 160 | Mylar | R | 17x5x10 | 5/$1.00 |
| G2437 | .1 | 400 | Mylar | R | 27x9x10 | 2/$1.75 |
| G4083A | .18 | 100 | Mylar | T | 27x12 | 6/$1.00 |
| G386 | .22 | 100 | Mylar | R | 15x4x18 | 2/$1.00 |
| G8698 | .47 | 100 | Mylar | B | 18x4x10 | 4/$1.00 |
| G8185 | .47 | 100 | Mylar | Ch | 14x7x17 | 4/$1.00 |
| G3302 | .47 | 250 | Mylar | B | 1x8x10 | 4/$1.00 |
| G7197 | .47 | 250 | Mylar | B | 27x5x15 | 3/$1.00 |
| G6827 | .68 | 100 | Mylar | T | 29x14 | $1.00 ea. |
| G6828 | .68 | 200 | Mylar | T | 42x15 | $1.00 ea. |
| G8703 | 1 | 100 | Mylar | R | 10x6x8 | 5/$1.00 |
| G8694 | 1 | 250VAC | Mylar | B | 32x15x30 | $1.00 ea. |
| G8693 | 1 | 250 | Mylar | B | 26x8x17 | $1.00 ea. |
| G8692 | 1.0 | 160 | Mylar | B | 26x10x18 | $1.00 ea. |
| G8697 | 1.5 | 160 | Mylar | B | 26x10x18 | $1.00 ea. |
| G8691 | 4.7 | 250 | Mylar | T | 45x9x18 | $2.49 ea. |
| G8690 | 5 | 100 | Mylar | R | 16x22x22 | $1.50 ea. |

Sizes are for reference only and might vary about 25%




## Compact .56µF 100V Mylar Capacitor

Long lead epoxy case mylar capacitor is rated .56µF 100V. Great for triggering capacitor for strobes. Prime fully marked unit is only .47"L x .38"H x .18"W.



**G12955 5/$1.00 • 100/$10.00 • 1000/$68.00**

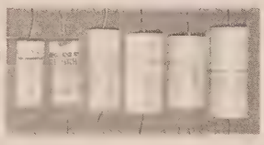
## "Greenies" Mylar Capacitors

Popular mylar capacitors for various electronic circuits. Most are green epoxy coated, but several are coated with different color epoxy. All are prime fully marked with standard leads.

| | | | |
|---|---|---|---|
| .001µF | 100V | G12876 | 10/$1.00 |
| .002µF | 100V | G12877 | 10/$1.00 |
| .0022µF | 100V | G12878 | 10/$1.00 |
| .0027µF | 100V | G12879 | 10/$1.00 |
| .0039µF | 100V | G12880 | 10/$1.00 |
| .0047µF | 100V | G12881 | 10/$1.00 |
| .0056µF | 100V | G12882 | 10/$1.00 |
| .0068µF | 100V | G12883 | 10/$1.00 |
| .022µF | 630V | G12884 | 8/$1.00 |
| .047µF | 400V | G12885 | 8/$1.00 |
| .056µF | 100V | G12886 | 8/$1.00 |
| .068µF | 100V | G12887 | 8/$1.00 |
| .1µF | 100V | G12888 | 8/$1.00 |
| .2µF | 100V | G12889 | 5/$1.00 |
| .22µF | 100V | G12890 | 5/$1.00 |
| .27µF | 100V | G12891 | 5/$1.00 |
| .39µF | 100V | G12892 | 5/$1.00 |
| .47µF | 100V | G12893 | 5/$1.00 |
| .56µF | 250V | G12894 | 5/$1.00 |

## Large Film Capacitors

Perfect for high voltage power supplies, lasers, stroboscopes or night vision circuits. Full length lead oval shaped axial types unless noted otherwise.



**DC Types**

| Value | | Size (LxH) | Stock | Price |
|---|---|---|---|---|
| 2µf | 200V | 1.8" x 1"* | G12710 | $1.25 ea. |
| 10µf | 250V | 2.3" x 1"* | G2305 | $4.00 ea. |
| 2µf | 400V | 1.2" x .8" | G12711 | $1.75 ea. |
| 3µf | 400V | 1.4" x .9"+ | G12712 | $2.00 ea. |
| 3.3µf | 400V | 1.3" x .9" | G2303 | $2.25 ea. |
| 3.3µf | 400V | 1.8" x .9" | G12713 | $2.35 ea. |
| 4.7µf | 400V | 1.7" x .9" | G2304 | $2.50 ea. |
| 3µf | 450V | 1.4" x .9" | G12714 | $2.45 ea. |
| .1µf | 600V | 1.2" x .5" | G12715 | $1.00 ea. |
| .22µf | 600V | 1.8" x .6"* | G12716 | $1.25 ea. |
| .22µf | 600V | 1.2" x .7" | G12717 | $1.25 ea. |
| .33µf | 600V | 2" x .6" | G12718 | $1.40 ea. |
| .68µf | 600V | 1.2" x .7" | G12719 | $1.50 ea. |
| 1µf | 600V | 1.3" x .8" | G12720 | $2.00 ea. |
| 1.5µf | 600V | 1.5" x .9" | G12721 | $2.25 ea. |
| 2µf | 600V | 1.9" x .8"* | G12722 | $2.50 ea. |

**AC Types**

| | | | | |
|---|---|---|---|---|
| 10µf | 150V | 1.8" x .8"* | G12724 | $3.00 ea. |
| 20µf | 150V | 1.8" x 1"* | G2306 | $4.50 ea. |
| 3µf | 200V | 1.3" x .7" | G12725 | $2.00 ea. |
| 1.5µf | 220V | 1.2" x .5" | G12726 | $1.35 ea. |
| 2µf | 220V | 1.2" x .6" | G2301 | $1.50 ea. |
| 2.2µf | 220V | 1.2" x .6" | G12727 | $1.60 ea. |
| 2.5µf | 220V | 1.2" x .6" | G12728 | $1.75 ea. |
| 3µf | 220V | 1.2" x .7" | G2302 | $2.00 ea. |
| 4µf | 220V | 1.2" x .7" | G12729 | $3.00 ea. |
| 4.7µf | 250V | 1.8" x 1.4" | G12730 | $3.25 ea. |
| .75µf | 400V | 1.3" x .7" | G12731 | $1.50 ea. |

*** Round Type +Radial Type**

## Electrolytic Capacitors

### Radial Long Leads

Sizes are for reference only and might vary about 25%

| Stock # | µF | Voltage | Size | Price |
|---|---|---|---|---|
| G9021 | .47 | 50 | 12 x 5 | 30/$1.00 |
| G9070 | 2.2 | 50 | 7x 4 | 8/$1.00 |
| G8704 | 2.2 | 50 | 12 x 5 | 20/$1.00 |
| G9071 | 3.3 | 50 | 11x5 | 20/$1.00 |
| G9072 | 4.7 | 50 | 7x4 | 8/$1.00 |
| G9077 | 10 | 50 | 11x5 | 20/$1.00 |
| G1145 | 10 | 160 | 20x10 | 2/$1.00 |
| G9078 | 22 | 16 | 11x5 | 20/$1.00 |
| G9079 | 22 | 25 | 11x5 | 20/$1.00 |
| G9855 | 22 | 250 | 25x13 | 2/$1.00 |
| G9081 | 33 | 6.3 | 7x.4 | 10/$1.00 |
| G9085 | 47 | 10 | 11x6 | 20/$1.00 |
| G9086 | 47 | 16 | 11x6 | 2/$1.00 |
| G9089 | 100 | 10 | 11x8 | 20/$1.00 |
| G8705 | 100 | 10 | 12 x 7 | 25/$1.00 |
| G8709 | 100 | 35 | 13 x 10 | 10/$1.00 |
| G9092 | 220 | 10 | 16x10 | 20/$1.00 |
| G9093 | 220 | 25 | 17x10 | 10/$1.00 |
| G9095 | 220 | 35 | 20x11 | 8/$1.00 |
| G9097 | 270 | 25 | 16x 10 | 10/$1.00 |
| G9102 | 470 | 50 | 21x 13 | 4/$1.00 |
| G8713 | 470 | 50 | 26 x 13 | 6/$1.00 |
| G9103 | 470 | 60 | 40x25 | 2/$1.00 |
| G9106 | 1000 | 10 | 25x12 | 6/$1.00 |
| G9107 | 1000 | 10 | 19x10 | 5/$1.00 |
| G9108 | 1000 | 10 | 21x13 | 5/$1.00 |
| G9110 | 1000 | 25 | 26x13 | 5/$1.00 |
| G9111 | 1000 | 50 | 19x17 | 4/$1.00 |
| G9114 | 1500 | 35 | 19x19 | 2/$1.35 |
| G9116 | 2200 | 16 | 25x12 | 2/$1.00 |
| G8707 | 2200 | 16 | 26 x 13 | 4/$1.00 |
| G9118 | 2200 | 25 | 27x16 | 2/$1.25 |
| G8716 | 2200 | 50 | 39 x 19 | 2/$1.00 |
| G9119 | 3300 | 16 | 19x19 | 2/$1.00 |
| G9120 | 3300 | 35 | 36x19 | $1.50 |
| G9121 | 3900 | 20 | 55x25 | $1.00 |
| G9122 | 4700 | 6.3 | 20x12 | 2/$1.00 |
| G9123 | 4700 | 16 | 35x28 | $1.00 |

Sizes are for reference only and might vary about 25%

### Ultra Compact 10µF Radial Capacitor

Small 10µF 63V radial capacitor is only .29" Tall x .25" dia. These prime capacitors have full length leads. On tape & reel.

**G13646 10/$1.00**

### Tiny 47µF 16V Radial Capacitor

Tiny 47µF 16V radial capacitor is only .3" Tall x .20" dia. Full length leads – black vinyl case.

**G13663 8/$1.00**

### Ultra Compact 1000µF 6.3V Radial Capacitor

Made by Sprague this orange case radial is only .5" Tall x .4" Dia. Prime full length leads.

**G13620 4/$1.00**

### 4700µF 16V Radial Capacitor

High value radial capacitor is only 1" Tall x .64" Dia. Full length leads. Blue vinyl case. 85°C.

**G13652 2/$2.00 • 10/$4.00 • 100/$35.00**

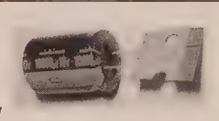
**Visit us Online: www.goldmine-elec.com**

### High Voltage Radial Electrolytic Caps

| Stock# | µF | Voltage | Type | Leads | L x dia (mm) | Price |
|---|---|---|---|---|---|---|
| G7427 | .1 | 100 | Radial | Long | 12x5 | 10/$1.00 |
| G6089 | .1 | 100 | Radial | Long | 12x5 | 10/$1.00 |
| G9720 | 1 | 100 | Radial | Tape | 12 x 7 | 5/$1.00 |
| G9467 | 1 | 450 | Radial | Tape | 12 x 7 | 5/$1.00 |
| G6564 | 10 | 100 | Radial | Long | 12x8 | 4/$1.00 |
| G9721 | 22 | 100 | Radial | Long | 12 x 8 | 3/$1.00 |
| G6509 | 33 | 100 | Radial | PC | 12x10 | 3/$1.00 |
| G9464 | 68 | 400 | Radial | Long | 40 x 16 | $1.00 ea. |
| G8728 | 82 | 400 | Radial | Snap in | 25x26 | $2.50 ea. |
| G5182 | 100 | 100 | Radial | PC | 27x15 | $1.00 ea. |
| G1288 | 100 | 160 | Radial | Long | 35x15 | $1.00 ea. |
| G9853 | 100 | 450 | Radial | Snap In | 40 x 21 | $1.49 ea. |
| G8729 | 100 | 450 | Radial | Snap in | 40x22 | $2.50 ea. |
| G8730 | 120 | 400 | Radial | Snap in | 40x20 | $2.50 ea. |
| G7780 | 150 | 100 | Radial | PC 3leads | 38x25 | $1.00 ea. |
| G9470 | 220 | 200 | Radial | Snap in | 25 x 23 | $1.00 ea. |
| G3933 | 330 | 160 | Radial | Snap in | 40x 25 | $1.25 ea. |
| G9395 | 330 | 200 | Radial | PC | 35 x 22 | $2.00 ea. |
| G7349 | 330 | 250 | Radial | Sanp in | 30x30 | $3.00 ea. |
| G8722 | 390 | 200 | Radial | Snap in | 30x22 | $2.50 ea. |
| G8715 | 470 | 100 | Radial | PC | 35x17 | $1.00 ea. |
| G9058 | 470 | 100 | Radial | PC 3leads | 55x25 | $1.00 ea. |
| G7354 | 470 | 200 | Radial | Snap in | 40x20 | $2.55 ea. |
| G9397 | 470 | 200 | Radial | Snap in | 40 x 30 | $2.49 ea. |
| G8723 | 680 | 200 | Radial | Snap in | 52x25 | $2.75 ea. |
| G7774 | 680 | 200 | Radial | Snap in | 40x30 | $2.25 ea. |
| G9448 | 680 | 200 | Radial | Snap in | 35 x 30 | $1.00 ea. |
| G8724 | 820 | 200 | Radial | Snap in | 50x35 | $3.00 ea. |
| G9428 | 820 | 200 | Radial | Snap in | 50 x 21 | $1.20 ea. |
| G8734 | 1000 | 100 | Radial | Long | 40x18 | $1.00 ea. |
| G8725 | 1000 | 200 | Radial | Snap in | 35x35 | $3.00 ea. |
| G8726 | 1200 | 200 | Radial | Snap in | 52x35 | $3.25 ea. |
| G9429 | 1200 | 200 | Radial | Snap in | 50 x 30 | $1.49 ea. |
| G8727 | 2000 | 200 | Radial | Snap in* | 50x40 | $3.50 ea. |

Sizes are for reference only and might vary about 25%
*indicates 4 leads

### 10,000µF 10V Radial Super Cap



Compact capacitor made by Nichicon features the latest in technology. This cap is only 18mm (dia) x 26mm (high) yet it's rated 10,000µF @ 10VDC 85°C. Great for thousands of applications including powerful Beam robots! These are full length lead units on tape and reel.

**G4417 2/$1.00 • 100/$35.00**
**1000/$250.00 • 10,000/$2100.00**

### Computer Grade Capacitors

Brand new recent manufacture computer grade capacitors that are perfect for all applications including "audio stiffening," power supplies, filtering, etc. All have screw terminals and blue vinyl covering. Made by Nippon Chemi-Con. All sizes exclude screw terminals. Each comes complete with screws.

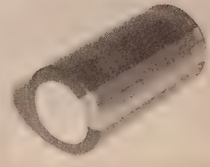
| Value | Type | Temp | Size | Stock | Price |
|---|---|---|---|---|---|
| 340µF 250VDC | 36DX | 85°C | 2.2"L x 1.39" Dia. | G12734 | $2.50 |
| 680µF 400VDC | 36DA | 85°C | 4.2"L x 1.40" Dia. | G12735 | $2.75 |
| 74000µF 15VDC | 36DE | 95°C | 3.2"L x 2.0" Dia. | G12737 | $7.95 |

### High Value Cap 8,800µF 6.3VDC

Rated 8,800µF @ 6.3VDC. Great for switching power supplies or any application where a high level of filtering is desired. Size: 2"T x 1" Dia. Has 3 leads. Made by Nippon Chem-Con.

**G6502 2/$1.00**

### Compact 33µF 400VDC Cap



This is a very recent design cap that is perfect for high voltage power supplies, strobes, lasers etc. It was made by Panasonic of Japan and features a very compact 32mm (H) x 16mm (Dia.) case. Temp rating is +105°C. Features PC leads on 7mm centers.

**G4039 $1.00 ea. • 100/$80.00**
**1000/$500.00 • 10,000/$4000.00**

# Electrolytic Capacitors



## Axial Elctrolytic Caps

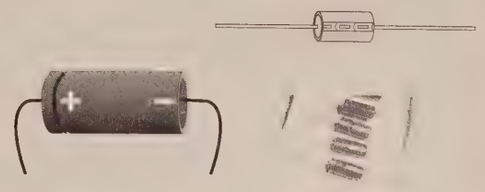
Sizes are for reference only and might vary about 25%

| Stock# | µF | Voltage | L x Dia (mm) | Price |
|---|---|---|---|---|
| G9050 | 1 † | 50 | 13 x 5 | 25/$1.00 |
| G9194 | 3.3* | 50 | 12x5 | 14/$1.00 |
| G9179 | 4 | 25 | 17X6 | 15/$1.00 |
| G9049 | 10 † | 25 | 15 x 7 | 20/$1.00 |
| G9196 | 15 | 50 | 20X7 | 12/$1.00 |
| G9197 | 20 | 50 | 20x7 | 12/$1.00 |
| G9160 | 22 | 10 | 12X5 | 10/$1.00 |
| G9180 | 22 | 25 | 12X5 | 10/$1.00 |
| G9187 | 22 | 35 | 16x7 | 10/$1.00 |
| G9198 | 22 | 50 | 15x6 | 8/$1.00 |
| G9168 | 24 | 12 | 20X6 | 20/$1.00 |
| G9150 | 25 | 6 | 15X6 | 25/$1.00 |
| G9161 | 30 | 10 | 12X5 | 10/$1.00 |
| G9172 | 10 | 16 | 14X7 | 10/$1.00 |
| G9151 | 33 | 6 | 10X4 | 25/$1.00 |
| G9152 | 47 | 6 | 12X6 | 25/$1.00 |
| G9162 | 47 | 10 | 13X6 | 10/$1.00 |
| G9181 | 47 | 25 | 16x8 | 8/$1.00 |
| G9163 | 50 | 10 | 20X8 | 14/$1.00 |
| G9173 | 75 | 16 | 22X8 | 10/$1.00 |
| G9164 | 150 | 10 | 17X8 | 12/$1.00 |
| G9174 | 150 | 16 | 23X10 | 14/$1.00 |
| G9175 | 150 | 16 | 16X8 | 10/$1.00 |
| G9153 | 220 | 6 | 17X8 | 15/$1.00 |
| G9165 | 220 | 10 | 18X8 | 8/$1.00 |
| G9176 | 220 | 16 | 16X8 | 5/$1.00 |
| G9182 | 220 | 25 | 25x10 | 7/$1.00 |
| G9189 | 220 | 35 | 35x10 | 6/$1.00 |
| G9202 | 220* | 50 | 26x10 | 5/$1.00 |
| G9154 | 250 | 6 | 24X10 | 14/$1.00 |
| G9170 | 250 | 12 | 40X10 | 8/$1.00 |
| G9155 | 470 | 6 | 20X8 | 10/$1.00 |
| G9177 | 470 | 16 | 22X10 | 5/$1.00 |
| G9171 | 500 | 12 | 25X14 | 7/$1.00 |
| G9156 | 1000 | 6 | 25X12 | 6/$1.00 |
| G8735 | 1000 | 100 | 40x20 | $1.00 ea. |
| G7352 | 1000 | 100 | 55x22 | $1.00 ea. |
| G9157 | 2200 | 6 | 25X12 | 5/$1.00 |
| G9183 | 2200 | 25 | 40x15 | $1.00 ea. |
| G9184 | 3300 | 25 | 40x17 | $1.50 ea. |
| G9159 | 4700 | 6.3 | 51X23 | 2/$1.00 |

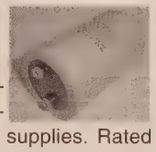
Sizes are for reference only and might vary about 25%

* Irregular leads

† Tape and Reel



### Powerful Computer Grade Capacitor 1500µf 450 VDC



Made by Cornell Dubilier these high voltage computer grade capacitors are perfect for making powerful high voltage supplies. Rated 1500µf @ 450 VDC with a temperature rating of -40°C to 85°C. Part # DCM152T450CC2B. Size about 4 1/8" tall (excluding terminals) x 2 1/2" dia. Brand new-Factory fresh. Has blue vinyl sleeve and screw terminals.

**G2229 $8.95 ea.**

### 2700µF 200VDC "Snap In" Capacitor

Made by Nippon Chemi-Con, this "snap in" cap is rated 105°C. Has blue vinyl sleeve. Size: 3.2" Tall x 1.4" Dia.

**G12912 $3.79 ea.**

### "Snap In" Capacitor 200µF 250VDC

Prime compact "snap in" rated 220µf 250VDC 105°C. Size 1.6" Tall x 1" dia.

**G12741 $1.00 ea.**

### Super Compact 820µf 200v Snap In Capacitor

This is one of the smallest size snap in caps for this value that we have seen. Made by Nippon Chemi - Con, this cap os rated 820µf 200V @105°C yet is only 1 3/8" tall x 1 3/8" dia. Brand new - Prime!

**G2296 $1.79 ea.**

### 68µF 400VDC Electrolytic Capacitor

Compact oval shaped electrolytic capacitor is 1.25"L x 1"W x .6" Thick. Has 2 negative leads and one (+) lead. Brand new rated up to 105°C.

**G12815 $1.00 ea.**

### Compact "Snap In" 330µF 250V Cap

Perfect for strobes, high voltage power supplies, lasers, etc., this compact capacitor is only 1 3/16" high x 7/8" diameter. Rated 85°C. Brand new by Nichion.

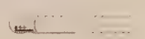
**G12813 $1.29 ea. • 10 for $10.00**

## Tantalum Capacitors

### Dip Tantalum Capacitors

Prime tear drop shaped solid dip tantalum capacitors. These are marked, fresh units made by Kemet, Mallory, Sprague, Panasonic etc. We have three different types of leads:

**A=Long Leads**



**B=PC Formed Leads**

**C= Tape & Reel**

**D= PC Leads**

| Value | Leads | Stock# | Price |
|---|---|---|---|
| .47µf/35V | A | G7082 | 4/$1.00 |
| .68µf/35V | A | G7084 | 4/$1.00 |
| 1µf/25V | A | G1712 | 4/$1.00 |
| 1µf/35V | A | G1713 | 4/$1.00 |
| 2.2µf/25V | D | G1715 | 3/$1.00 |
| 2.2µf/35V | D | G1716 | 3/$1.00 |
| 2.2µf/35V | B | G7087 | 3/$1.00 |
| 2.2µf/50V | A | G1717 | 3/$1.00 |
| 3.3µf/16V | A | G7088 | 3/$1.00 |
| 3.3µf/25V | D | G1719 | 3/$1.00 |
| 4.7µf/10V | A | G7091 | 3/$1.00 |
| 4.7µf/16V | C | G7092 | 3/$1.00 |
| 4.7µf/25V | A | G1720 | 2/$1.00 |
| 10µf/6.3V | D | G1723 | 2/$1.00 |
| 10µf/16V | A | G1724 | 2/$1.00 |
| 10µf/25V | B | G7095 | 2/$1.20 |
| 10µf/35V | D | G1726 | 3/$1.00 |
| 15µf/10V | B | G7097 | 3/$1.00 |
| 15µf/16V | A | G1728 | 3/$1.00 |
| 15µf/20V | D | G1729 | 3/$1.00 |
| 22µf/10V | A | G1731 | 3/$1.00 |
| 22µf/15V | A | G1732 | 3/$1.00 |
| 22µf/16V | A | G7098 | 2/$1.00 |
| 47µf/6V | A | G7102 | 2/$1.00 |
| 47µf/10V | A | G1736 | 2/$1.00 |
| 47µf/20V | A | G1739 | 2/$1.00 |
| 47µf/25V | B | G7103 | $1.00 |
| 68µf/15V | B | G7105 | $1.10 |
| 330µf/6V | A | G7112 | $3.00 |

### "Bullet" Tantalum Capacitors

| Stock | Value | Voltage | Price |
|---|---|---|---|
| G9841 | 2.2 | 35 | 8/$1.00 |
| G9054 | 3.3 | 15 | 4/$1.00 |
| G8161 | 6.8 | 15* | 10/$1.00 |
| G8162 | 10 | 10* | 12/$1.00 |
| G6856 | 40 | 20(Kemet) | 4/$1.00 |
| G6857 | 40 | 20(Sprague)** | 5/$1.00 |
| G6422 | 47 | 10** | 3/$1.00 |

* = PC Mount formed leads

** = Tape and reel

**View our complete selection of Caps**
**Visit us Online: www.goldmine-elec.com**

## Capacitor Assortments

### Silver Mica Assortment

Useful assortment of 20 marked dipped silver, mica capacitors.

**G137 $1.00**

### Box of Capacitors

Box full of all types of capacitors including: disc ceramic, tubular mylars, electrolytics, tantalums, etc. Some PC leads, but all are marked and prime. You get at least 1,000 pcs in a 7" x 5" x 5" cardboard box. This is a great way to stock up your parts bin.

**G3060 $20.00**

## CDS Cells

### Giant CDS Cell

Giant light sensitive 1" Dia. CDS cell with dark res. in megohms and light res. less than 1Kohm. Prime!

**G1296 $1.00 ea.**

### Encapsulated CDS Cell

Prime encapsulated CDS cell features over 20 Meg dark resistance and 1K or less light resistance. Size: 0.5" Dia. x .325" Tall with long leads. Brand new, high quality CDS cell is very nicely made.

**G13286 2/99¢**

# Cellular Phone Items

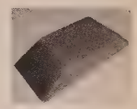
ELECTRONIC GOLDMINE

### Celltek Rapid Charger / Conditioner for 6V Nicads

Brand new rapid charger made for OKI 1325/1335 cell phone batteries. These can be adapted to quick charge any 6 V cell phone nicad battery (that is designed for quick charging). Features quick or slow charge mode, LED indicators, which show battery status, circuitry to prevent over charging and a conditioning system that allows you to discharge your battery to prevent "memory effect". These come with AC adapter for home use, a cigarette adapter for auto use and a set of instructions all packaged in a nice retail box. Note: if you wish to use it with your particular cell phone battery - you must adapt it to your battery and make sure that it works properly for your specific battery. We don't have any information on doing this and can not take any responsibility for misuse. These are prime brand new units.

**G9305 $6.95 ea.**

### Emergency Power Source for Microtac Series Cell Phones



Perfect for extended trips when you don't wish to take your charger. Simply install 8AA alkaline batteries into this unique holder and place it on your cell phone (just like your regular Nicad pack). Can be refilled over and over again by just replacing the AA batteries. Looks, attaches, and works just like your Nicad pack. Perfect for emergencies or long trips (keep it in your glove compartment or briefcase for an emergency). Battery Pack/holder only. No AA batteries included. Brand new in blister pack. Grey color.Made by Cell Tek.

**G4475 $2.00 ea.**

# Circuit Boards

### Blood Pressure Monitor Circuit Board

This 3 1/2" x 3 1/4" circuit board contains various ICs, a microprocessor, LCD display and a large electronic pressure transducer. The board is new, however the air pump, air solenoid, front panel, etc. have been removed so we are selling them "AS IS" only. We did connect up 9VDC to the red and black leads–the LCD displayed numbers and when we blew into the tube, the numbers changed. We definitely do not recommend trying to measure blood pressure with these, but they are fascinating to experiment with. Sorry, no data available.

**G2023 $6.95 ea.**

### Super Efficient 6VDC Air Pump & Cuff

Made for an automatic blood pressure sensor, this super efficient 6VDC rolling pump can inflate the cuff in seconds. Cuff is removable by simply disconnecting an air hose. These were removed from brand new equipment. Pump size is about 2 3/4" L x 1" Dia. These are surrounded by a neoprene rubber cushion that can be removed. Cuff is brand new with velcro fastener.

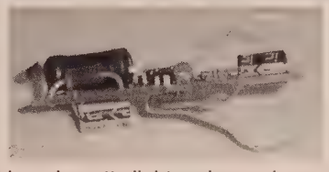
**G2025 $12.00 ea.**

### 6VDC Air Solenoid and Pressure Chamber

Miniature solenoid and pressure chamber made for an automatic blood pressure measuring device. Brand new as shown. Removed from new units. No data available.

**G2024 $2.00 ea.**

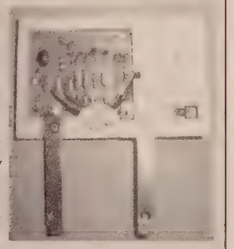
### Cigarette Lighter Plug Power Supply Board



Small circuit board was meant to fit inside a cigarette lighter plug and convert 12VDC to a regulated voltage for charging cell phone nicad batteries. Has IC, diodes, LED indicator, various resistors, capacitors, miniature fuse, etc. Sorry no other info, brand new - board only - no plug.

**G1676 2/$1.00**

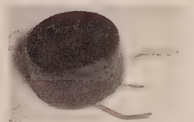
### Super Music Maker Modules



We have three different high output music modules which play a different song each: *"Let Me Call You Sweetheart"*, *"Somewhere My Love"* (the theme from Dr. Zhivago) and *"Pomp and Circumstance"* (the Graduation March).These modules are heavy duty in construction with a solid plastic frame that is 3" x 1 1/2". Has 2 long battery clip type posts and each operate from 6VDC up to 12VDC. Has built in start button and piezo speaker.

| | |
|---|---|
| **G3256** "Somewhere My Love" | **$1.00 ea.** |
| **G3900** "Let Me Call You Sweetheart" | **$1.00 ea.** |
| **G3226** "Pomp and Circumstance" | **$1.00 ea.** |

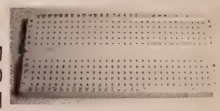
### Public Address Amplifier Module PAA-2



These were made many years ago and are in a faded retail package, however, the product itself is new and fully functional. Simply add a 6V lantern battery, a carbon mike (found in older-style telephones), and any speaker and you have a voice amplifier for P.A. use. Small module has only 3 leads. Complete with hook-up info.

**G4452 $2.50 ea.**

### Super Breadboard



Compact breadboard for making prototype circuits features 60 groups of 5 connected terminal points. Handy for prototyping thousands of circuits. Each terminal firmly grips the lead or IC pin inserted into it. Reusable over and over again. Size 3 1/4" L x 1 3/8" W. White color plastic with peel and stick foam tape on base so you can mount it on a chassis if desired.

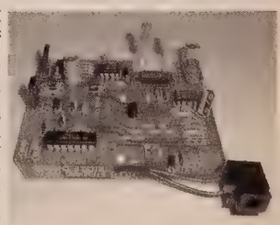
**G9849 $3.98 ea.**

### Large Universal Breadboard

Handy breadboard for making prototype circuits. White 6 1/2" x 2 1/8" quick connect breadboard accepts almost all types of electronic components and wires. Consists of 126 groups of 5 connected terminal points and 8 bus lines of 25 connected terminals. Brand new–First quality.

**G8534 $4.75 ea.**

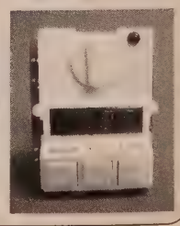
### Rapid Charge NICAD Smart Charge Board



Sophisticated circuit board was the "brains" of a cell phone Nicad battery pack charger. It initially charges a 6V (5 nicad) pack at about 600-750ma. As soon as the battery reaches capacity the charger automatically senses it and drops its charge level down to around 90 ma or less to just maintain the battery without overcharging. Board is about 3" square and has 3 ICs and 3 transistors, several status LEDs, etc. These are brand new and they do require an AC adapter capable of outputting at least 750 ma at 12 VDC. We don't have the schematic of these but they are simple to hookup (power in and power out). Prime - these were meant to be installed in expensive smart charger bases for various cell phones.

| STOCK# G8615 | | | |
|---|---|---|---|
| 1-24 | 25-49 | 50-99 | 100 UP |
| $3.50 | $3.15 | $2.80 | $2.45 |

### Small Digital Clock and Timer Relay



Made for a coffee machine this clock can be used as a standard clock plus it has a heavy duty set of contacts that can be set to switch 120VAC to any device you choose at the time you choose. Contacts are SPST connected to 120VAC and rated 10 amp so you can switch on a 1.2KW flood lamp or appliance at the desired time. Digits are bright red and can be seen at a distance. Has hour, minute and auto switch buttons plus manual override knob to switch a device on manually. Solder a line cord and wire up to your device and you're in business. Size only 2 1/16" x 2 3/8" x 2 1/4". Brand new!

**G1754 $4.95 ea.**

**G1299 White SPT-2 Line Cord (for above) 2/$1.00**

### Control Board for Solar Panel / Battery / Light

This small 2 1/8" x 1 7/8" circuit board features a LM358 IC, a CDS cell and associated circuitry to control thelighting of a bright 6V lamp (attached) from a 6V lead acid battery (not included). The board was connected to a 10V solar panel (not included) and it would light by the amount of voltage on the battery. The circuit would not allow the battery to discharge beyond a certain voltage level. The boards were removed from functioning lights, however we have no other info or schematics.

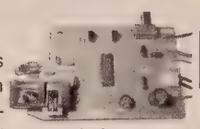
**G4601 $1.00 ea.**

### 12VDC Fluorescent Tube Driver Board

This sophisticated circuit board was designed to convert 12VDC to a high voltage needed to drive fluorescent tubes such as our blacklight tube or our white backlighted display panel. Simply connect 12VDC to the input terminals, connect start terminals together, and whatever tube you have connected to the output terminals will light up for about 1 minute. The board then needs to cool for a minute before you activate it again. Features a red "on" LED indicator. Size: 2 7/8" x 1 7/8".

**G9614 $1.89 ea.**

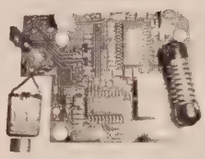
### Automatic Hand Sensor



This functional circuit board was made to turn on an air pump when it's built in optical sensor assembly detected a hand from about 4" away. It was made for an automatic soap dispenser that was to be used in hospitals and this pc board was the "brain" of the dispenser. It operates from 6VDC and has an output for directly driving a small DC air pump (not included) and it has another output that momentarily operated a miniature 6VDC solenoid (not included). The solenoid was operated when you moved your hand away from the sensor. The small 2 1/8" x 3 1/2" board is extremely reliable and it would be great for use in Robot obstacle avoidance applications or vision applications. We include a simple hookup diagram so you can operate the board, however we do not have the schematic or any other data. Brand new–removed from factory units that never went to market.

**G4090 $5.95 ea.**

### Pager Board Type A



These are complete pager boards with vibrating motor. They were probably designed for restaurant paging applications but we are not sure. We are selling them "As Is" for parts only. Size is about 2 9/16" x 2". Contains a tremendous quantity of SMD resistors, capacitors and also several through hole type crystals, a vibrating alert motor, etc. Used–AS IS.

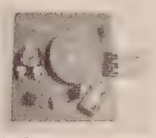
**G12869 $1.00 ea.**

### Pager Board Type B

These are complete pager boards with a miniature vibrating type pager motor. Each has 2 crystals, a ferrite antenna, filters, SMD parts, etc. These were designed to operate on one of the 2 AAA nicad packs we sell and have a built in connector for connecting to them. Size of board is about 2" x 2 9/16". Sold "As Is" for parts only. Used.

**G12870 $1.25 ea.**

### Magic Sound Switch



Triggers with "clap of hands". Turn on low voltage lamps, motors, radios, relays etc. Operates on 3VDC. Has built in crystal microphone, SCR and sensitivity control. Complete with schematic. Size 2" square.

**G2219 $1.00 ea.**

## Coils

### Toko Coil

Small transformer coil made by Toko for use in circuit to drive displays using 3V to 12VDC. Coil comes complete with schematic of a simple 2 transistor 2 resistor inverter circuit using the Toko Coil, you supply transistors and resistors, etc.

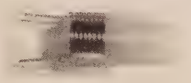
**G2859 $1.00 ea.**

### Ferrite Toroid Bead w/Wire

Green colored 8mm toroid bead with 7 turns of enameled wire. Ends of wire are tinned, ready to mount on pc board. Great for filter, noise reduction circuits. The diameter of the wire is about .90mm.

**G4357 5/$1.00 • Factory Bag of 500 (marked IN-N191) /$60.00**

### Adjustable Slug Tuned Coil



Small coil features about 10 turns of wire on a 3/16" Dia. form. Has ferrite slug that is adjusted from bottom of coil.

**G7024 4/$1.00**

### Mini20µH Radial Inductor

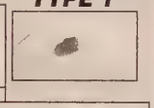
Small radial 20mH inductor with long leads. Size about 3/8"H X 3/16"Dia.

**G1325 5/$1.00**

### Bag of Coils

Sealed manufacture bags of 100 coils. These are all prime and made by Communications Associates. Both types have wire leads.

**TYPE 1-**
1/8"one hole ferrite bead
**G6624 Bag of 100/ $2.00**



**TYPE 2-**
1/4" two hole ferrite bead
**G6625 Bag of 100/$2.00**

**TYPE 2**

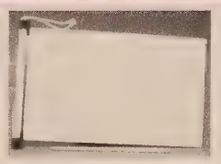
### Dale Ferrite Core 10µH Inductor

High quality inductor made by Dale features a 10µH value and heavy duty tinned wire leads. We're not sure how many amps this inductor can handle, but it probably is at least in the 10 to 20 amps range. Part# is 1H-20, 10µH. Size about 1 1/2"L X 5/8"Dia.

**G9984 $1.00 ea.**

## Computer Items

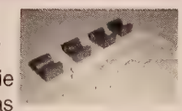
### Deluxe Backlight Panel



White light-up panel for laptops made for Apple Computers features several diffusion films and a clear plastic base surface with a conductive see-thru deposited grid pattern. These are brand new and are about 8 1/2" x 5 1/4" (excluding the white fluorescent tube on one edge). The tube is a miniature 5 1/2" x 3/32" Dia. bright white fluorescent tube which can be driven by many common inverter circuits (tube is shown at bottom of photo). As soon as the appropriate power is applied to the two flexible power leads, the entire panel glows a bright even white color. In sealed manufacturer bags.

**G9620 $8.95 ea. • 5/$40.00**

### Ferrite Core Interference Reduction Kit for Monitors



Special ferrite core material and tie straps in a handy package. This kit was to be supplied with video monitor cables. It has complete simple to use instructions. To use just place both halves of the ferrite core (2 complete sets are included) around the end of the monitor cable (by the connector) that goes into the computer and then cinch the tie wrap included around the core. Repeat the process for the other end of the cable that goes to your monitor and you have an easy way to reduce or completely eliminate any RF interference. Brand new sealed package with cores, tie wraps and instructions. Perfect for computer monitors!

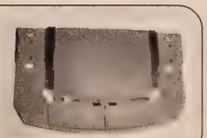
**G7771 $1.00 ea.**

### Tiny Trackball

This is probably the tiniest trackball ever made! It measures only 1 11/16"L x 13/16"W x 3/8"H. Made by Alps for a major laptop computer maker that went out of business. They are very precision made and highest quality. The components are all SMD with an IC marked 3JA1DT002/TB6012CF and a tiny 8 position connector. They appear to be complete, new and very recent in manufacture. We have no hookup info or schematic, but at this price we know that you'll be impressed and want to experiment with them, use them for replacement or figure out the hookup!

**G5514 $1.50 ea.**

### Touch Sensitive Gliding Type Mouse



Late model touch sensitive mouse made for laptop computers. These are about 4 5/8" x 2 7/8" x 3/16". They have a part# of 808-874649-002-A 66503215 Rev. B on the part. Contains several ICs and a 4 pin miniature female connector on the circuit board underneath unit. Has large touch area and 2 click buttons. These are brand new complete made by ALPS. Perfect for experimentation or replacement. Sorry no other data available.

**G1283 ~~$2.49~~ ea. Sale! $1.00 ea.**

### Microphone for Computer Sound

High quality microphone for use with your computer sound system features grey cord, handy peel-N-stick mounting holder and 3.5mm plug as shown. Prime unit-same as sold in many computer stores.

**G7939 $2.49 ea.**

### Super Power Surge Protector Outlet Strip

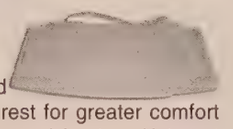
Brand new 7 outlet power strip with 4 ft. power cord, indicator light type on/off switch, protection indicator light and auto power shut down when surge protection capacity is reached. Rated at an incredible 450 Joules for surge energy dissipation. Maximum surge voltage is 6000 volts and maximum spike current is 13,500 amps. These high quality units are made by Woods and are individually boxed.

**G9969 $9.95 ea.**

7 outlet surge protector outlet strip with additional protected computer modem modular jack with 70 Joule protection. The 7 AC outlets have the exact same specs as above.

**G9608 $12.00 ea.**

### Brand New Internet Keyboard by IBM



This smooth action keyboard features a detachable palm rest for greater comfort and various word processor, spreadsheet, and internet "hot keys". Although it is brand new we do not have software to use with the keys so we were not able to see any results from pressing the various hot keys - all regular keys and functions work fine. If you know how to activate these "hot" keys this is a tremendous price! Beige color. Brand new in plastic wrap/bag but no retail packaging and no other info on use of hot keys available. Branded IBM model KB-7993

**G1613 ~~$10.00~~ ea. Sale! $6.00 ea.**

### Bourns ECWID-C28-BC0024 Incremental Digital Contacting Encoder

Brand new encoder made by Bourns features 24 cycles/revolution. Standard 3/8" panel mount bushing with 5/8" Long 1/4" Diameter slotted shaft. Has PC pin/ Bracket terminals. Prime fully marked.

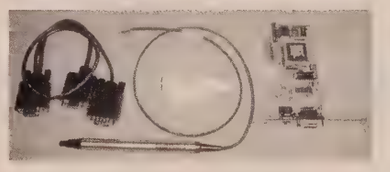
**G2072 $1.00 ea. • 10 for $8.00**

### Wilson Micro Passive Sports Speakers

Very compact pair of sports yellow speakers for stereo radios, casette players and laptop computers. These are shielded so they won't cause interference with your computer display monitor. Size only 2 1/2" x 2 3/4" x 3/4". Features gold plated 3.5mm stereo plug, splash and dust resistant design. Frequency response: 100Hz-16KHz. Model 1210001. Brand new in sealed retail blister packs.

**G8405 $5.95 ea.**

### Complete Fast Point Computer Light Pen System



This unit provides better control, increased productivity and reduced training costs when using a computer. Just pick up the light pen and point it at the correct image on your computer screen. This is a complete light pen system in the manufacturer's box. You get the FX-441SR-30 Industrial Touch Tip switch Light Pen, a PXL-395 w/ PXL-2b Light Pen interface board (which plugs into expansion slot inside your computer), all cables, coupler, software on 3.5" disk and extensive complete instructions. These are new and the documentation says that it is compatible with Windows NT, Windows 95 and Windows 98. We have not tried these since they are brand new/complete, but we assume it should be easy to implement. Worth over $300.00. Box is marked FT-2230-CYB.

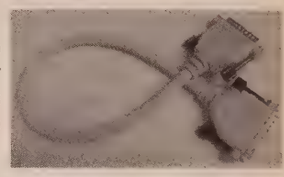
**G12905 $89.00 ea.**

### 6 Outlet Grounded Plug

This handy 6 outlet grounded plug converts any standard 2 outlet wall outlet (grounded type) to a 6 outlet plug. Simply plug it into your existing wall outlet. Rated 120VAC, 15amps, 1800 watts.Brand new.

**G9824 $3.98 ea.**

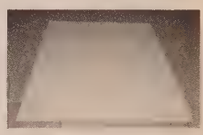
### Computer Cable



Handy male DB25 to male DB25 computer cable has all 25 pins connected from one connector to the other. Length is 18" long. Brand new with molded connectors on each end.

**G3910 $4.00 ea.**

### Print-On Magnetic Paper



This exciting new product alows you to create full color photo refrigerator magnets, notices, promotions, etc. with almost any inkjet printer. Let your imagination run wild as you perk up memos, create custom logo magnets, party notices, etc. After printing, simply cut with scissors. White matte finish sheet is about 8 1/4" x 11 3/4". This amazing product is for use with Inkjet printers only–damage may occur if used in copy machines or laser printers.

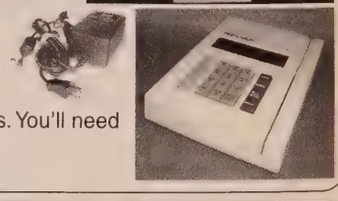
**G1604 Package of 3 Sheets $12.00**
**Bulk Package of 20 Sheets $60.00**

### Belkin Wireless Phone / Modem Jack

Turns any electrical outlet into a remote phone or modem jack. Works with phones, all PCs, Macs, TV internet boxes with internal or external modems up to 56K. Highest quality made by one of the top brands-Belkin. Brand new in retail blister package. Worth about $90.00

**G1756 $49.95**

### Mag Stripe Card Reader / Intelligent Terminal with Auto Dial



Complete card reader/input terminal made for PCS for use in pharmacies or drug stores throughout the U.S. We were told that these cost in the neighborhood of $500 each. They were pulled out of service when PCS initiated a new system. Most work perfectly but some may not so we are selling them "as is" only. They are very sophisticated and have CPU, memory, phone dialer, modem, etc. ICs. They have a bright blue and white digital alphanumeric display, a built in mag stripe reader (we swiped a card through it, and the card number appeared on the display) It also has a high quality keyboard (although some key tops may show some signs of usage). There are phone jacks so that it could be connected to an outside line as it could automatically communicate with the main computer and download or upload info. We have the password code and will include it so that the user programming function of the machine can be accessed from the keyboard. However we do not have any other info or programming tips. You'll need to figure that out! Complete with AC adapter. (sold "as is" only - no returns)

**G8602 ~~$12.95~~ ea. Sale! $6.95 ea.**

### Educational and Fun CD ROM Software Programs

These are fascinating interactive programs for IBM compatible computers with Windows 3.1 or Windows 95. Each CD ROM comes with 3 fascinating fun and exciting full color programs. They are marked for "grade school" students, however we had a 17 year old honor student try each of the Type1, Type 2 and Type 3 programs and he said they would be useful and interesting for his age group also. Each Klik and Play software CD is brand new in a sealed blister card and requires no installation-just click and play. All have full color sound, some video animation, graphics, sound and interactive features. A true multimedia experience. Reward your chid or yourself with one of these great CDs.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| *Type 1* | **The Earth, Animals, The Solar System** | *Type 2* | **American Concise Encyclopedia, Websters New World Dictionary and U.S. Geography The Land and its People** | *Type 3* | **The King Jungle Safari, Talking U.S.A. Map Super Star Science CD and Com plete Interactive World Factbook** | *Type 4* | **This special CD is for preschoolers under 8 and contains Dino Puzzles, Camp fire Stories, and The Amazing Maze Game** |
| **G1809** | **~~$5.00~~ Sale! $2.00** | Sale | **G1810 ~~$5.00~~ Sale! $2.00 ea.** | Sale | **G1811 ~~$5.00~~ Sale! $2.00 ea.** | Sale | **G1812 ~~$5.00~~ Sale! $2.00 ea.** |
| Sale | | | | | | | |

### "F" to RCA Adapter

Handy bulkhead type connector adaptor has female "F" type connector on one end and female "RCA" type connector on other end. Very useful for hundreds of applications. These are precision chrome plated high quality types with panel mounting nut and washer.

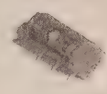
**G6644 $1.00 ea. • 10/$5.00 • 100/$35.00**

### "F" to RCA Adapter

Handy adapter has a female "F" connector on one end and a male RCA plug on the other. Size is about 1 7/8" (L). Excellent quality heavy duty unit.

**G9726 $1.00 ea.**

### WECO Screw Connector Terminal Blocks for PC Boards



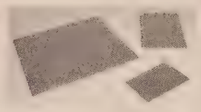
High quality screw connector wire terminal blocks for PC boards feature 3 poles per block. Accepts wire from 26 gauge up to 14 AWG. Rated 300V 20amps. Type 941-T-DS/03 by WECO is grey in color .6"L x .49"W x .47"H. Center to center spacing is .2" and each block can be interlocked with each other to form any size block you desire. Each block has 3 pins that are soldered into your PC board. Prime made in Canada. These cost over 50¢ each from other distributors.

**G12942 5 blocks/$1.00 Factory Box of 250 for $40.00**

See Drill Bits on Page 43

## Copper Clad

### Super Copper Clad Assortment



Our best assortment ever. Contains 25 pieces of various small size copper clad circuit board blanks. Each is double sided. Thickness is .026". Minimum size 2" square. A PC board makers delight.

**G2679 $5.00**

### Copper Clad

Prime double sided copper clad glass epoxy material for making PC boards. Available in .026 thickness only.

**.026 Thick**

| Size | Stock# | Ea. | 10 for |
|---|---|---|---|
| 3x4 | G2622 | 39¢ | $3.50 |
| 3x6 | G2624 | 55¢ | $5.00 |
| 4x8 | G2626 | 95¢ | $9.00 |
| 4x10 | G2628 | $1.20 | $11.00 |
| 5x8 | G2630 | $1.20 | $11.00 |

| Size | Stock# | Ea. | 10 for |
|---|---|---|---|
| 5x10 | G2632 | $1.50 | $14.00 |
| 6x7 | G2634 | $1.60 | $15.00 |
| 6x12 | G2636 | $2.15 | $20.00 |
| 8x10 | G2638 | $2.40 | $23.00 |

## Crystals

### 1.000MHz Oscillator

Precision oscillator operates on 5VDC and produces a stable 1.000MHz signal. Only 4 leads to connect (5VDC in, and 1.000MHz out). Size only 3/4" x 1/2". Prime metal case unit.

**G8160 $1.00 ea.**

**10/$8.00 • 100/$75.00 • 1,000/$600.00**

### Box of Crystals 13.500Mhz

Prime HC-49V metal case crystals with full length leads. Made by KDS. Fully marked highest quality brand new crystals in manufacturers box. Full box of 300. That's only 2¢ a crystal!

**G2283 $6.00/box**

**5 boxes (1500) Crystals for $25.00**

### Resonators by Murata

455KHZ ceramic resonators for RF circuits made by Murata. These are prime new branded units. 455E.

**G5066 4/$1.00**

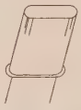
### Quartz Crystals

We have just received a large shipment of prime crystals from a cellular phone, pager and communications equipment mfg. A government contract ended and you can buy these at a fraction of their cost.

Tiny

**A**
**HC-49/U-S**

Mini



**B**
**HC 18/U**

Standard

**C**
**HC 33/U**

| Stock | Frequency | Case | Price |
|---|---|---|---|
| G5162 | 1.8432MHZ | B | $1.00 |
| G3827 | 1.8432MHZ | C | $1.00 |
| G6192 | 2.097152MHZ | C | $1.00 |
| G3828 | 2.4576MHZ | C | $1.00 |
| G6191 | 2.868MHZ | B | $1.00 |
| G5164 | 2.88MHZ | C | $1.00 |
| G5454 | 3.575611MHZ | C | $1.00 |
| G3830 | 3.5795MHZ | B | $1.25 |
| G614 | 3.579545MHZ | C | $1.00 |
| G615 | 3.579545MHZ | B | $1.00 |
| G7145 | 3.93216MHz | B | $1.00 |
| G3832 | 4.000MHZ | B | $1.50 |
| G616 | 4.194304MHZ | C | $1.00 |
| G5455 | 4.496500MHZ | C | $1.00 |
| G5456 | 4.499300MHZ | C | $1.00 |
| G3833 | 4.500MHZ | A | $1.75 |
| G5457 | 4.500700MHZ | C | $1.00 |
| G5458 | 4.503500MHZ | C | $1.00 |
| G7617 | 4.9152MHZ | A | $1.25 |
| G7590 | 5.0MHZ | C | $1.50 |
| G2868 | 5.00MHZ | B | $1.00 |
| G5168 | 5.034963MHZ | B | $1.00 |
| G3834 | 5.0688MHZ | B | $1.25 |
| G5169 | 5.7143MHZ | B | $1.00 |
| G3835 | 6.000MHZ | B | $1.50 |
| G619 | 6.02128MHZ | C | $1.00 |
| G5459 | 6.0820MHZ | C | $1.00 |
| G5170 | 6.144MHZ | B | $1.00 |
| G5460 | 6.20MHZ | C | $1.00 |

| Stock | Frequency | Case | Price |
|---|---|---|---|
| G5461 | 6.248MHZ | C | $1.00 |
| G5171 | 6.4512MHZ | B | $1.00 |
| G5172 | 6.500MHZ | B | $1.50 |
| G3836 | 8.000MHZ | B | $1.50 |
| G7600 | 8.000MHZ | A | $1.50 |
| G5173 | 9.9000MHZ | B | $1.25 |
| G3837 | 10.000MHZ | B | $1.50 |
| G3838 | 10.800MHZ | A | $1.60 |
| G3839 | 11.000MHZ | B | $1.50 |
| G3840 | 12.000MHZ | B | $1.50 |
| G5174 | 14.085MHZ | B | $1.00 |
| G5462 | 14.302MHZ | B | $1.00 |
| G6186 | 14.31818MHZ | A | $1.25 |
| G5175 | 14.31818MHZ | B | $1.00 |
| G3841 | 14.7456MHZ | A | $1.60 |
| G3842 | 16.000MHZ | B | $1.50 |
| G3843 | 17.064MHZ | B | $1.25 |
| G3844 | 18.000MHZ | B | $1.50 |
| G5463 | 18.8811MHZ | B | $1.00 |
| G3845 | 19.6608MHZ | A | $1.60 |
| G3846 | 20.000MHZ | A | $1.75 |
| G5179 | 20.000MHZ | B | $1.50 |
| G7591 | 22.5790MHZ | B | $1.25 |
| G6187 | 24.000MHZ | A | $1.25 |
| G7147 | 24.000MHz | B | $1.00 |
| G7148 | 25.000MHz | B | $1.00 |
| G6193 | 28.000MHZ | A | $1.25 |
| G7616 | 32.000MHZ | A | $1.25 |
| G7592 | 32.000MHZ | B | $1.25 |

### Crystal Oscillators

We have a huge selection of these prime metal case crystal oscillators. Each requires only 5VDC to operate. These are highest quality types made by famous manufacturers such as Dale, Fox, M-TRON, CTS, etc. Simple to use, great for replacement or new construction. Sorry - no spec sheets available. All are branded and frequency marked.

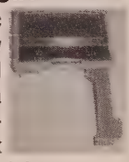
| PIN # | CONNECTION |
|---|---|
| 1 | N/C |
| 7 | GND |
| 8 | OUTPUT |
| 14 | $+V_o$ |

* Square Case

**Your Choice: $1.00 ea.**

| Stock# | Frequency | Stock# | Frequency |
|---|---|---|---|
| G6194 | 4MHz | G7597* | 32.0000MHz |
| G7136 | 9.600MHz | G5155 | 32.000000MHz |
| G7601 | 10.000MHz | G7607 | 34.000MHz |
| G7602 | 12.000MHz | G7608 | 34.500MHz |
| G7137* | 12.000MHz | G7609 | 36MHz |
| G7139* | 14.400MHz | G6934* | 36.000MHz |
| G2523 | 16.000MHz | G7610 | 37.5000MHz |
| G5145 | 18.0MHZz | G7598 | 40MHz |
| G5143 | 18.4275MHz | G5157 | 40.000000MHz |
| G5146 | 18.870MHz | G7142 | 48.000MHz |
| G5147 | 19.6608MHz | G5158 | 50.000MHz |
| G5148 | 20.000MHz | G7775 | 55.80000MHz |
| G7603 | 20.2MHz | G6189 | 56.666MHz |
| G7604 | 22MHz | G6190 | 62.955MHz |
| G5149 | 22.118400MHz | G7143* | 64.00MHz |
| G6196 | 22.5MHz | G7611 | 64.000MHz |
| G5150 | 24.000000MHz | G6935* | 66.666MHz |
| G7140 | 25.000000MHz | G7612 | 66.666MHz |
| G5152 | 26.000MHz | G6198 | 69.251MHz |
| G7605 | 26.6667MHz | G7614 | 80.000MHz |
| G7141 | 30.000MHz | | |

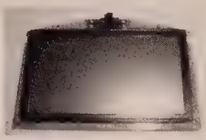
### LCD Display with Green Backlight



Small LCD display mounted in a plastic enclosure. The background of these glow green when power is applied to the small flexible connector. Sorry, no info or data except we were told these came from Lucent. Overall size of plastic housing about 1 7/8"W x 1 3/8"H. New but absolutely no info.

**G2294 $1.00 ea.**

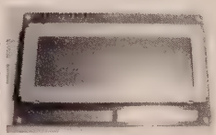
### Large LCD Display



Intelligent LCD display features a 2 5/16" X 4 5/16" active display area and an overall size of about 3 1/2" x 5 1/4". These are part# HG12603-A made by Hyundai. They have 10 ICs on the reverse side and a 17 pin connector. Unfortunately we have no specs or hookup data. They do have a slide control on the front that we suspect is for contrast or brightness. These are brand new–prime but we are selling them "as is" because we have absolutely no info.

**G1317 $4.95 ea.**

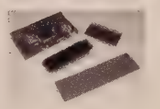
### Samsung UC-16129-GLATO-A LCD Display



Backlighted LCD display by Samsung is about 1" X 3" active area and 2 3/8" x 3 7/8" overall size. Thse are brand new and have one of those epoxy blob ICs on the reverse side. We have no info on these and are selling them "as is" although they are brand new prime displays.

**G1316 $1.49 ea**

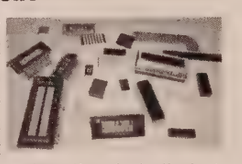
### LCD Display Assortment



Assortment containing 4 different LCD displays or modules. Great for experimenting /learning about LCD displays. All prime–but no specs or data

**G8762 $2.00**

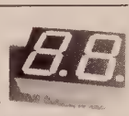
### Giant Display Assortment



All kinds of quality displays including LCD, Bargraphs, Dot types, LED Bars, fluorescent, etc. These are all 100% prime although sometimes a face may have a slight scratch due to packaging them together in bulk, but this in no way effects the appearance when operated. All are brand new! Giant assortment of 25 pieces.

**G9877 $5.00**

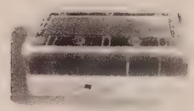
### Hewlett Packard BrightYellow Dual Display



Type QDSP-K347 dual 7 segment display features 2 common anode 9/16" high segments with right hand decimals. These are brand new, optically and electrically prime, however the displays were removed from their protective shipping tubes and shipped to us in bulk so the pins on the displays may be bent and a few displays may have slight scratches on them from the way they were shipped to us. These very bright, high quality displays can be purchased from us at a fraction of what HP charged for them!

**G4031 4/$1.00 • 100/$22.00 • 1000/$190.00**

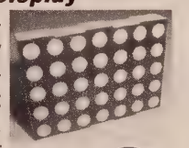
### SUB-CUB 1000 Complete 6-Digit Counter



Made for use in vending machines, copiers, flow meters, test equipment, portable instruments, etc., the SUB-CUB made by Red Lion Controls has a built in LSI counter chip and 6 digit display. It has a compact LCD type self contained counter. The overall size of the module is 1.045"L x .67" H. It features six .2" high digits and can count at rates up to 500kHz. The ultra low power requirements are only 5VDC at 15µA. The latchable display with the separate reset function permits these counter modules to be used as frequency or rate meters, timers, phase angle or pulse width indicators and for other complex readout requirements in addition to simple high speed counting. Uses a snap-mount to directly mount to your PC board (electrical connectors are made with elastomeric connectors that are part of the module). These are brand new–see Red Lion web site for more technical details.

**G12838 $5.95 ea.**

### BiPolar Red/Green 5x7 Dot Display



Prime bright Dot display for moving message displays is made by Liteon type LTP2657AA. the overall size of this display is 1.5" x 2.08". Has 2 rows of 14 pins each. Pins have been shortened for ease in PC board mounting. Brand new!

**G13693 $1.95 ea.**

### Large Epson LCD Graphics Display type ECM-A0600

Brand new intelligent LCD display by Epson features 128 x 128 dot active area that is 2.5" sq. Overall size is about 3 3/4" x 3 1/4". Has a 12 contact flat ribbon connector and the following: (2) HD61104 ICs, (2) SED1630F ICs, (1) 324G IC and (1) Epson010 22xMB IC. Sorry, no data available, but we do know these high quality displays are used in many products, including POS terminals.

**G9566 $7.95 ea.**

### Bright Green Clock Display

Bright green common anode LED clock display type AND4145G. Size of digit is about 1/4" tall. Overall size of display is 1 3/8" L x 7/16" H. Has 24 pins and features 4 digits plus center colon.

**G12804 $1.00 ea.**

### Toko Coil

Small transformer coil made by Toko for use in circuit to drive fluorescent displays using 3V to 12VDC. Coil comes complete with schematic of a simple 2 transistor 2 resistor inverter circuit using the Toko Coil, you supply transistors and resistors, etc.

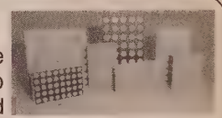
**G2859 $1.00 ea.**

### 5x7 Red Dot Display

LPTL12157ACBK1. The color is bright red and the overall size is 1 1/2" tall x 7/8" wide. Dot matrix 14 pins.

**G7705 $1.50 ea.**

### Moving Dot Display Spectacular



We have just received over 25,000 of these prime moving dot displays. We have a type for almost every application, however we don't have the spec sheets or data on hookup so we are selling them cheap. Hurry they wont last long at these prices. All are prime and new! Multicolor types light up red or green on each dot depending on DC polarity or yellow when AC is applied.

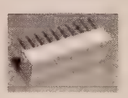
| | Part# | Color | Array | Size | Stock | Price |
|---|---|---|---|---|---|---|
| Type 1 | LTP1257AA | Red/Grn/Yel | 5 x 7 | 1 1/4" x 7/8" | G1641 | $1.00 ea. |
| Type 5 | DEGN9231WB | Red/Grn/Yel | 5 x 8 | 2 3/8" x 1 1/2" | G1645 | $1.75 ea. |

### Bright Red/Green Moving Bar Display

Small 1 5/8" long display features 3 bright green bar segments and then 2 bright red bars (left to right–5 total). Part # TLM8051.

**G4287 2/$1.00**

### Multicolor HP Bargraph Display HDSP-4836



Beautiful 10 segment bargraph features a multicolor display. The first 2 segments are bright red, the next 2 are bright yellow, the next 2 are bright green, the next 2 are bright yellow and the final 2 are bright red. Brand new prime. About 1" long x 3/8"W.

**G9314 $1.49 ea. • 10/$14.00**
**100/$125.00 • 1000/$1000.00**

### HP Green 10 Segment Bargraph Display

Bright green high quality 10 segment bargraph display is perfect for audio or power level meters. Type hp 3489 is about 1" long x 3/8" wide. Long wire leads! Prime.

**G8942 $1.25 ea.**
**10/$11.00 • 100/$100.00 • 1000/$895.00**

### Giant LED Dot Display

This is the largest dot display we have ever seen! The giant 5 x 7 dot display is an incredible 3" x 4 1/16" in size. Each dot is 3/8" in diameter and each dot lights up a brilliant green. Make colorful displays, moving message signs, etc. that can be seen from great distances. Prime made by LITEON part # LPTL4255AGBW2.

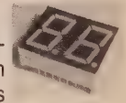
**G7684 $10.00 ea.•10/$80.00•100/$750.00**

### Ledtech Large 7 Segment Display

Red 7 segment common anode display. Type LA2541R-24. The overall display is 1 5/16" x 15/16". Digit size is about 1" tall. Brand new, bright red-orange display. Sorry, no data avalable.

**G1586 2/$1.00**

### Dual Green 7 Segment Display



Type LN526GA bright green 2 digit display. Common anode type with .57" high digits. Size of display .98" L x .75" H. Has 2 right hand decimal points.

**G13002 $1.00 ea.**

### Large Arrow Display

Bright yellow arrow display can be made to display right or left going arrows (or up or downward pointing). Type LTS1083G. Size about 1 5/16" x 7/8". Brand new!

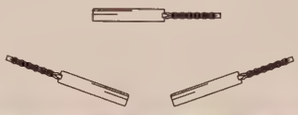
**G9848 $1.00 ea.**

### Tiny Drill Bits

Tiny size #77 (.018) drill bits for PC boards. Solid tungsten ultra sharp drill bits. These are very fragile and must be used in a drill press but they can drill thousands of holes if used carefully.

**G3908 5/$2.00**

### Router Bit Assortment



Handy assortment of 3 different router bits for PC boards. Used, but perfect condition.

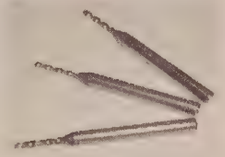
**G961 $2.00**

### Solid Tungsten Carbide PC Drill Bits

We just received a quantity of these re-sharpened solid tungten carbide drill bits that are designed for drilling thousands of holes in PC boards. Each has standard 1/8" shank and razor sharp points.

| Stock # | Size | Decimal | | Price |
|---|---|---|---|---|
| G1915 | 58 | .042 | *Small | $1.00 |
| G1916 | 55 | .053 | Medium | $1.00 |
| G1917 | 53 | .059 | Large | $1.00 |

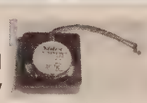
*Common bits for 1/4 Watt resistor leads, etc.



D

## Fans

### World's Smallest Fan?



This is probably the smallest practical cooling fan made. Type C34427-55 by Nidec is only 1" square x 7/16" thick. Has Flexible color coded leads and requires only 5VDC @ 90ma to operate. This can be used for hundreds of cooling projects, personal fans, solar powered projects etc. Brand new!

**G2232 $2.95 ea.**

### Ultra Thin 5VDC Panasonic Fan

This fan is only 1/4" Thick x 1 3/4" square. It was designed to cool microprocessors and has a metal bottom surface and side exhaust. Type UDQFC4E09 DC brushless fan by Panasonic requires 5VDC@.15amp. Brand new!

**G4509 $3.95 ea.**

### Super Efficient 12VDC Fan

Super efficient cooling fan made by Nidec Beta V model# TA300DC A33245-16. Features low current draw of only 120ma and great air flow. Size: 3 3/16" sq. x 3/4". Prime with flexible wire leads & connector.

**G6766 $7.50 ea.**

### Mitsubishi 12VDC Fan

High volume cooling output fan model MMF-08C112DH by Mitsubishi. Operates on 12VDC at 0.17A. Size 3 1/8" sq. x 1" thick. Comes with flexible polarized leads 11 1/2" long.

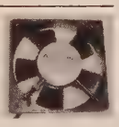
**G7554 $5.50 ea.**

### 12VDC Fan

This 3 5/8" sq fan is 1" Thick and features a 7 blade fan rotor for great air cooling. Requires only .12 amp a 12VDC. Made by Superred model # CHA9212AB. Brand new with color coded leads.

**G1982 $3.49 ea.**

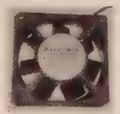
### Alectron 24VDC 80CFM Fan



Large 4 3/4" x 1" fan features 24VDC brushless motor and flexible color coded leads. Output is 80CFM. Brand new - Alectron part # 125-8024.

**G2289 $3.98 ea.**

### Alectron 24VDC 21CFM Fan



Small 3 1/8" x 1" fan by Alectron puts out 21CFM. from 24VDC. Efficient brushless design with 7 blade prop. Color coded flexibe leads. Brand new - Alectron part # 804-2124

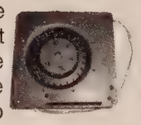
**G2286 $2.98 ea.**

### Alectron 220VAC Fan

Small 3 1/8" square x 1 1/2" deep that operates on 220V or 230VAC 60Hz. Puts out 20CFM at 220VAC or 30CFM at 230VAC. Brand new with flexible wire leads. Model 801-2626.

**G2288 $4.98 ea.**

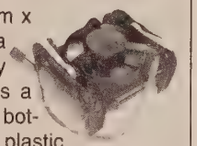
### Papst RG90-18/12N/19 12VDC Biscuit Fan



Large high air flow volume biscuit type fan made by Pabst. These are about 5 5/16" sq. x 1 1/2" thick and feature heavy duty construction, flexible wire leads and an alarm lead for use to indicate fan malfunction. Biscuit type provides large volume of air flow! Brand new, heavy duty and highest quality. Operates on 10 to 15VDC. Rated 580ma at 12VDC.

**G9817 $5.95 ea.**

### Giant Intel Heat Sink & Fan Combo



Consists of a 12VDC .21amp 95mm x 72mm fan assembly mounted to a 35mm (High) x 95mm x 72mm heavy brushed aluminum heat sink. Has a black thermal transfer square on the bottom which is 40mm square and has plastic clamps that were made to lock onto mother board. Made for Intel by Sanyo Denki. Has 3 lead cable with female connector (for 3 pin male header). In antistatic box.

**G12937 $12.95 ea.**

### Jamicon Ultra Thin 12VDC Micro Fan

Designed for cooling microprocessors these 1 1/2" square fans are only slightly thicker than 3/8" thick. Operates on 12VDC at .17amp. With flexible color coded leads.

**G1793 $1.49 ea. • 10 for $12.00**

### 12VDC/215ma Aromat fan

This is a powerful and high quality output fan made by Aromat model # AIF92 FAN AIF90111. Operates on 12 VDC at 215 mA. With 11" L flexible wires. Size 3 5/8"sq. x 15/16" T.

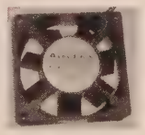
**G7696 $7.95 ea.**

### Alectron 124-1024 High Output 24VDC Fan (105CFM)

Made by Alerctron, this 4 3/4" sq. x 1 1/2" thick all metal fan puts out 105CFM which is a real cooling breeze! Has 2 flexible color coded insulated leads. Will operate on as low as 9VDC but at less CFM airflow. Brand new, excellent quality.

**G2263 $5.49 ea. • 2 for $10.00**

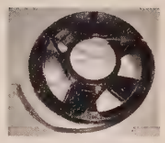
### Alectron 24VDC 32CFM Fan



Small 3 1/8" x 15/16" fan by Alectron puts out 32CFM. operates on 24VDC and has flexible power input leads. Brand new - Alectron part # 804-3224.

**G2285 $3.25 ea.**

### Giant Round Fan



When you have a major cooling job, you need this giant 6 3/4" Dia. x 2" Thick metal case fan. Brand new type TA600DC Nidec BETA V™ model A33400-29 provides a tremendous volume of air. Reliable heavy duty design. Requires 36VDC @ .70amp. No finger guard so be careful when operating. Prime and worth much more than our low price!

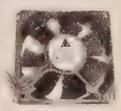
**G1522 $10.95 ea.**

### 12VDC Miniature Fan

Small fan to cool your hot microprocessor operates on 12VDC and is only 1 9/16" sq x 3/4" thick. Provides efficient cooling (only requires 100ma). Can even be operated from a 9V transistor radio battery! Brand new prime. Delta Electronics model DBF0412H.

**G1472 $1.99 ea.**

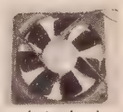
### 80mm High Output Delta 12VDC Fan



Nice quality high output fan by Delta features operation from 12VDC @ .30Amp. Part # ASB0812HH. Has alarm lead. Brand new–made for HP Computers. Size: 80mm square x 25mm thick.

**G12840 $1.99 ea. • 10/$15.00**

### NMB 12VDC Boxer Fan®



Type 4710NL-04W-B50 by NMB features 12VDC .74amp operation. Ball bearing type brushless fan is 4 3/16" sq. x 1" thick. Has long color coded insulated wire leads. Brand new.

**G4510 $4.95 ea.**

### 24VDC/0.07a Mini Fan

Brand new mini fan by VPPV model # AD0424HB-670. Operates on 24VDC at 0.07A. Has 4" long flexible wires with connector. Size 1 9/16" square x 3/8" thick.

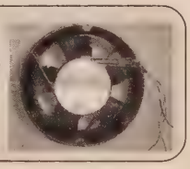
**G7559 $4.00 ea.**

### Alectron 24VDC 39CFM Fan

Brushless fan by Alectron features 39CFM output and size of 3 5/8" x 1". Brand new - Alectron part # 924-3924. Has color coded power leads.

**G2287 $3.49 ea.**

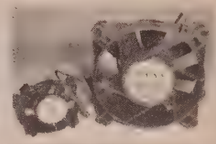
### Comair Rotron Giant 48VDC Fan



Large 6 3/4" dia. fan, Patriot Model PD48T7H features 5 large metal blades, temperature sensor to automatically increase speed and monitor lead. All metal frame and heavy duty construction for trouble free performance. Brand new in factory box.

**G2227 $6.95 ea.**

### Mini Fan Blowout



We just received a large quantity of these very efficient brushless mini fans for cooling all types of equipment. Brand new, Super efficient, quiet fans. All are the popular brand "IC Fan"® by Shicoh. High quality made in Japan.

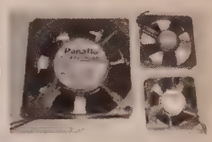
| | | | | |
|---|---|---|---|---|
| **Type 1** | **12VDC @ .11AMP** | **1 9/16" Sq. x 13/32" Thick** | **G4086** | **$1.35** |
| **Type 2** | **12VDC @ .22AMP** | **3 1/8 Sq. x 3/4" Thick** | **G4088** | **$1.75** |

### Miniature Fan Assortment

Prime assortment of 3 different miniature brushless fans designed to cool microprocessors or cool compact electronic devices, all of these fans operate on 12VDC but with various current requirements ranging from 70ma up to 170ma. Size about 1 1/2" sq. x 13/32" thick and up to 25/32" thick.

**G1775 $2.98**

### Fan Assortment

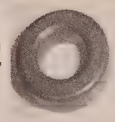


We have various small fans that we have too small quantities to advertise. We have grouped 3 of these together in an assortment. Assortments will vary but each will contain fans in the 5VDC to 12VDC range. Tiny types and small fans–but none larger than 5". All 100% prime, brand new.

**G1300 $6.00**

## Ferrite / Toroids

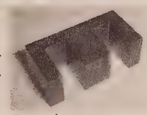
### Medium Ferrite Core (Toroid)



These are prime ferrite cores made by Nippon Ferrite LTD. Size is 1" outer diameter x 5/16" thick with an inside diameter of 1/2".

**G6683 5/$1.00**

### Large Ferrite "E" Cores



Ferrite "E" shaped core is about 1 5/8" L x 3/4" high x 5/8" thick. Perfect for making custom transformers or filters.

**G4295 4/$1.00 • Box of 117 for $22.00**

### Large Ferrite Bead

Large ferrite bead for use in making noise filters. Size: 1 1/16" tall x 9/16" diameter with 1/4" hole.

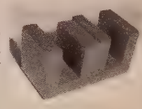
**G3926 2/$1.00**

### Ferrite Bars

We have 2 sizes of these prime ferrite bars.

| Stock | Length | Price |
|---|---|---|
| G8905 | 9/16" x 1/8" | 5/$1.00 |
| G8901 | 1 13/32" x 3/16" | 3/$1.00 |

### "E" Ferrite Core



Ferrite core for use in filters, oscillators, noise control, power inverters, switching converters, etc. Approx. size: 1 5/8" x 3/4" x 3/4". Made of thick gray ferrite material color.

**G8912 $1.00**

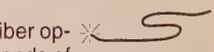
## Fiber Optic Items

### Fiber Optic Display Bundle

Bundle of various length plastic fiber optics made for a multicolor light display. We didn't receive the light unit but we did get the fiber optic bundles that consist of about 70 small diameter plastic fibers cut at various lengths from about 3/4" up to about 8" long. The bundle terminates into a small metal crimp fitting which is where a multi colored light was to be connected. We placed one of our bright bi-polar LEDs next to the fitting and in a darkened room the end of each of the fibers glowed beautifully. Great experimentor item!

**G1134 $2.95 ea.**

### Fiber Optic Strands

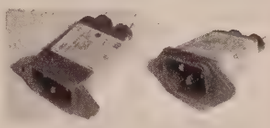


Small diameter unjacketed fiber optic strands. Perfect for thousands of applications. Fun to use and experiment with. Length of each strand is 3ft.

**G755 5/$1.00**

## Filters

### Corcom EMI 6amp Line Filters



Each is rated 6amp, 50-60Hz @ 250V. Both have standard 3 prong connnectors on one end and solder terminals on other end. Brand new panel mounting type.

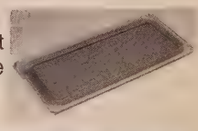
| Type | Size (excluding terminals) | Stock# | Price |
|---|---|---|---|
| 6ED1 | 1 5/8" L x 1 3/16" W x 3/4" Thick | G1374 | $1.00 ea. |
| 6EC1 | 2" L x 1 3/16" W x 3/4" Thick | G1382 | $1.25 ea. |

### Filter Cable

5 1/2" Long filter cable features one female "F" connector and one RCA connector. Cable passes through a 1 1/4" ferrite toroid. Entire cable is encased in rubber. Made for cable TV, video games,andrelated applications. Brand new, prime!

**G1358 $1.00 ea.**

### EMI Shielded Display Window



Very unique item from a government contract is a EMI shielded see through window. This was meant to allow a person to view displays without EMI energy effecting them. These are brand new made by Tecknit and come in a sealed mfg. bag. Size is slightly smaller than 1" x 2". Has see through metallic grid with silver plated frame around inside surface of glass to allow electrical connection to ground.

**G8677 $2.00 ea.**

## Fuses, Fuseholders & Breakers

### Fuses & Fuse Holders

### Standard Fuseholder Blowout Sale

Standard black case panel mounting fuseholder for all standard size fuses (2AG etc.). High quality unit with twist off cap, panel mount nut and washer. Has solder terminals for hookup. Rated max 15AMP 125VAC.

**G1481 2/$1.25 • 10/$5.00 • 100/$40.00**

### Screwdriver Removable Cap Fuseholders

Made by Bussman, these feature an end cap which is removed with a screwdriver. Made for panel mounting. For mini size fuses that are 3/4" long.

**G8273 $1.00 ea.**

**G8275 $1.00 ea.**

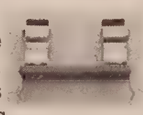
### 1/2 Amp Pico Fuse

Tiny axial lead fuse is the same size as a 1/4watt resistor. Prime long lead fully marked units made by Pico Inc.

**G12999 4/$1.00**

**Factory Bag of 100 for $22.00**

### PC Board Mini Fuseholder



High quality fuseholder for miniature fuses holds up to a 7/8" long fuse. Made for PC board use and features standard solder tabs for PC board mtg.

**G8558 5/$1.00 • 100/$12.00 • 1000/$100.00**

### Inline Fuseholder

Inline fuse holder for standard fuses comes with a 20 amp fuse installed. Simply cut wire, install in series with one power lead of device to be protected and you're ready to go. Prime-heavy duty!

**G7334 $1.00 ea.**

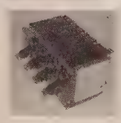
## Breakers

### Schurter 15AMP Breaker Switch

Snap in rocker action circuit breaker by Schurter type ABTWF150CO features two 15AMP breakers rated 240VAC or 60VDC. Brand new precision Swiss made. Snaps into a 1 3/4" x 7/8" hole.

**G4030 $1.00 ea.**
**10 / $8.00 • 100 / $60.00 • 1000 / $500.00**

### Unique DC Actuated 15amp Circuit Breakers Made by Carlingswitch



Consists of three 15amp circuit breakers and a 4th breaker that appears to trip all breakers when 10 to 12VDC is applied. We really aren't sure what these were made for but they are brand new and are fully labeled Carlingswitch part # AA4-XO-02-149-1D1-C.

**G2308 $2.00 ea.**

### Handy Push Re-Cirk-It 12Amp Breaker

Handy circuit breaker by Eaton Heinemann products mounts in a .6" panel hole (comes with a press on panel mtg ring). Rated 12AMP at up to 250VAC or 10AMP at 50VDC. Brand new and of course its Eaton Heinemann quality!

**G4035 $1.00 ea.**

F

## Greenplugs

### Save Energy and Money with GreenPlug®

We have just received a large quantity of these energy saving devices known as GreenPlugs®. A GreenPlug® is an electronic device that reduces electricity usage and energy waste. The technology inside of a greenplug consists of a patented ideal Voltage Controller that senses and controls the voltage applied to a motor or appliance. Motors run cooler and quieter while using less electricity. GreenPlug® literature states that their unit will save you money on your electric bill, extend the life of your appliance and protect against voltage surges which also reduces the use of natural resources required to create electricity. According to the information we received with the GreenPlugs®, testing was performed in the US and Canada with results as follows for refrigerator savings. **Based on average savings of 28.5Whr/hr. Savings may vary with line voltage and appliance efficiency.** GreenPlug® supplies full line voltage when your refrigerator starts up, or turns on an internal fan. However, when your refrigerator doesn't require full voltage, which is most of the time, GreenPlug® doesn't allow excess electricity to come through to the motor. We were told that after 1992 many major appliance manufacturers incorporated this type of circuitry into their new designs which probably impacted the GreenPlug® company in a big way. If you do have a pre 1992 appliance you'll want to try one of these fascinating devices. The units we have are complete and new , however the smaller types were to be shipped in bulk to GreenPlug® distributors so they do not have a retail blister package or retail cardboard box. We are selling these at a fraction of their original price. Each is very simple to use; just plug the GreenPlug® into your outlet and then your appliance into the GreenPlug®. We have several different models available. Please note: The manufacturer has closed so the guarantees printed on the packaging are void and of course, since the Electronic Goldmine sells surplus we can not guarantee the efficiency of the GreenPlugs® or be responsible for any liability connected with their use.

| UTILITY RATE W/TAX | SAVINGS/YEAR |
|---|---|
| 8¢/KWH | $20 |
| 10¢/KWH | $25 |
| 12¢/KWH | $30 |
| 14¢/KWH | $35 |

Save Energy Resources

### Type 1 Refrigerator or Freezer Greenplug®

This type is designed for 120VAC refrigerator or freezers up to 7amps (840 watts max) manufactured before 1992. Not for use on models with LED digital displays. New with instructions.

**G9946 $3.98 ea.**

### Type 5 Heavy Duty GreenPlug®15 Pumps & Motors

This type of GreenPlug® works with makes and models of pool & spa pumps, sump pumps, well pumps, circulating water pumps and small motors. These large units are rated 120VAC at 15amps continuous. This is slightly less power rating than the type 4 GreenPlug® below, however this unit plugs into any standard grounded outlet not the heavy duty 20amp outlet that the type 4 requires. Features 2 built in female outlets to plug your pump or motor into. Has built in surge protection and circuit override. New in sealed manufacturer box with instructions.

**G1103 $9.49 ea.**

### Type 6 Heavy Duty GreenPlug®15 for Soft Drink Machines and Commercial Refrigerators / Reach-in Coolers

This type of GreenPlug® works with all makes and models of soft drink machines, commercial refrigerators, reach in coolers, ice freezers & ice machines, water coolers & fountains. Made for 120 VAC machines up to 15amps. Features built in surge protection and circuit override. Plugs into any standard grounded outlet and has 2 built in standard grounded female outlets to plug your machines into. New in sealed manufacturer box with instructions.

**G1104 $9.75 ea.**

### Type 7 Heavy Duty GreenPlug®20 for Soft Drink Machines and Commercial Refrigerators/Reach-in Coolers

This type of greenplug is similar to the type 6 greenplug above except this one is rated 20amps. Features 2 female 20amp outlets built in to allow several machines to be plugged in (up to a total draw of 20amps). Has built in surge protection and circuit override. Note: this GreenPlug® is designed to plug into 20amp outlets only (these 20amp receptacles are configured with the left slot in a horizontal position) New in sealed manufacturers box with instructions.

**G1105 $10.25 ea.**

## Hardware

### Schrader Brass Needle Valve

Solid brass block needle valve with aluminum knob is 1 1/2" (L) x 5/8" sq. excluding knob. Has threaded hole on each end about 4mm in dia. Works on pressures up to 2000psi and allows precise metering of flow. Great for air, or water. Brand new in sealed manufacturer's bag. Part#SPN100B-40MG.

**G4106 $2.00 ea.**

### Tiny Bolts and Nuts 2-56 Type

Miniature phillips head 2-56 bolts are 7/16" long and come with matching nuts. High quality made for the government. Great for hundreds of applications where a small size bolt and nut are required.

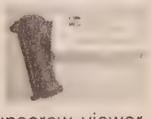
**G4007 Pkg of 8 bolts and nuts $1.00**

### Handy "L" Angle Bracket

Small aluminum "L" bracket is handy for attaching wheels or axles to small robots. Size of one leg is 9mm x 8mm and the other is 10mm x 8mm. Each leg has a hole drilled into it; one is about 3.5mm in dia and the other is 2.3mm in dia.

**G4187 Package of 8 for $1.00**
**100 for $10.00 • 1000 for $80.00**

### High Quality Door Viewer



Want to know who is at your door before you open it? Try our high quality simple to install door viewer. Simply drill a 7/16" hole in door unscrew viewer, insert and retighten viewer. Antique brown finish metal body. For doors up to 2 3/4" thick.

**G8539 $1.79 ea. • 10/$15.00**

### 6-32 Metal Bolts

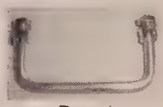
Handy 6-32 bolts precision made. We have the following lengths:

| | | |
|---|---|---|
| G5286 | 1/4" long | 25/$1.00 |
| G5287 | 3/8" long | 25/$1.00 |
| G5292 | 2" long | 25/$1.00 |

**Metal 6-32 Nuts (for above bolts).**
**G5293 plain 30/$1.00**

# Hardware

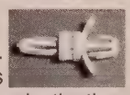
### Super Quality Fold Down Metal Handle



Made for equipment boxes, racks, etc., these 3 1/4" handles are made of brushed 1/4" Dia. aluminum with complete hardware. Handle folds down for compactness when not in use. Brand new.

**G4519 $2.98 ea.**

### PC Board Standoff



This popular item always sells quickly. It's designed for mounting PC boards to metal chassis. Made of sturdy white plastic, they insulate and at the same time hold the PC board firmly without bolts and nuts. Standoff snaps into 4mm hole in PC board and 4mm hole in chassis. Supports board about 5mm off chassis. Made by Richco, Inc.

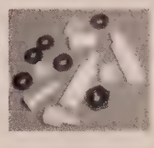
**G4390 8/$1.00**

### Stud Type Hex Stand Off Assortment

Assortment of 20 various size stud type standoffs. Each standoff has a male stud on top and a female threaded base. 4-40 and 6-32 types included with several lengths.

**G5300 $1.00**

### Nylon Hardware Bag



Small reclosable bag containing 50 pieces of nylon insulated type hardware. You'll find nuts, standoffs, screws, washers, etc. All prime.

**G6129 $1.00**

### Small Wire Nuts

These are like the big ones (left), however these can handle smaller gauge wires. Very handy - just strip insulation from ends of wire, insert into wire nut and twist until a firm connection is made.

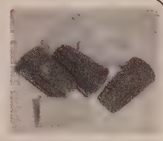
**G3927 25/$1.00**

### Handy Wire Nuts

Great for connecting several wires together. Simply remove insulation from the end of wires, insert into wire nut and twist until a firm connection is made.

**G3203 20/$1.00**

### Largest Wire Nuts



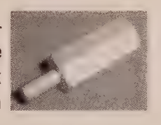
Bag of 10 of the largest wire nuts we have seen. Size about 1 1/16"L x 11/16" dia. Has metal insert inside plastic insulated wire nut.

**G2280 99¢/ Bag**

**Slightly smaller yellow nuts - Bag of 10**

**G2281 99¢/ Bag**

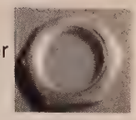
### Extra Large Standoffs



Extra large heavy duty standoffs for holding heavy chassis or circuit boards. These have a 8-32 stud on top of a 7/8" tall hex shaped standoff that is threaded with an 8-32 female thread on the bottom.

**G7115 4/$3.00**

### Pot Hex Nuts



Standard hex nut for all 3/8" potentiometer bushings. High quality, chrome plated.

**G145 10/$1.00 • 50/$3.00**

### Gold Hold Down Screws for Audio Wires

Great for making custom speaker cabinets, stereo connections etc. These 8-32 bolts are gold plated for reliable noise free connections. Great for new construction or replace old standard types with gold plated types. Screw has .35" square wire "hold down" washer attached. Overall length about .36"L. Set of 4.

**G12732 $1.00/Set • Bag of 100/$22.00**

### Round Metal Spacer Standoff Assortment

Assortment containing 25 spacers/standoffs. Each has in common that they are round. Some of them are threaded inside for a bolt and some are just hollow with no threads. Very handy. Sizes range from 3/16" to 1 1/2" long.

**G7116 $2.00**

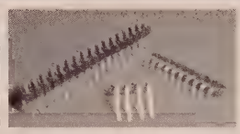
### Super Standoff Assortment

Handy assortment of various size and types of metal and plastic standoffs. Tiny to large sizes. You get 30 pieces total.

**G6567 $2.00**

# Headers

### Header Assortment



Assortment of various snap apart male headers, you'll find singles and duals in sizes from 2 pins up to 20 pins and larger. All have square .025" posts. Assortment contains 6 pieces.

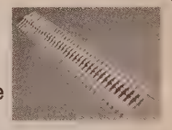
**G7345 $1.00**

### 18 Female Machine Pins on Strip

Consists of 18 high quality machine pins on a cut apart strip. Cut off as many as you need, then solder them into PC board and pull out the protective plastic strip. Its an easy way to make custom sockets for displays, ICs, transistors, LEDs etc.

**G12960 2 Strips (36 pins total) $1.00**

### Right Angle Snap Apart Male Headers



Same as above but these are right angle.

**G7586 10 pin 5 sets/$1.00**

**G7316 36 pin 2 sets/$1.00**

### 34 Pin Male Header

Standard .10" spacing male header consists of 2 rows of 17 pins each can be cut apart for different applications.

**G1675 5/$1.00**

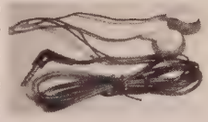
### 32 Pin Inline Female Snap Apart Machine Pins

Standard .125" spacing female machine pins on a snap apart strip.

**G12996 $1.00**

# Headphones

### Stereo Headphone Ear Buds



Prime "Ear Buds" stereo headphones made by GE for use with just about any walkman or stereo portable radio. Great for replacement as these have the most commonly used stereo plug. Brand new in cellophane package.

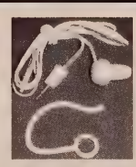
**G3375 $2.49 ea.**

### High Quality Stereo Koss "Ear Clip" Headphone

Super comfortable and super responsive "Ear Clip" headphones by Koss feature ear buds that are held in place by small, lightweight clips that hold onto each ear. Great response with full heavy duty bass performance. Brand new in bags. Has stereo 3.5mm plug. Black color.

**G12908 $2.49 ea.**

### Teac Personal Earphone



Made for private listening of mono radios, tape players, etc. These feature white earpiece, ear clip, 3 ft. cable and miniature 2.5 mm male mono plug. Brand new in retail blister card.

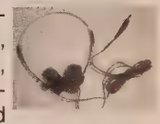
**G9252 $1.29 ea.**

### ClearVoice™ Labtec Stereo Headphone with Boom Microphone

High quality Labtec LVA-8525 stereo headphone with noise cancelling mono boom microphone is designed for voice command, speech recognition, internet communications, etc. Lightweight quality headset features 32Ω impedance and frequency response of 20-20,000Hz. Microphone requires 1.5VDC power source and has a response of 100-16,000Hz with an impedance of 2000Ω. Has built in volume control and on/off switch for the microphone. With two 3.5mm male stereo plugs for connection (one for headphone and one for microphone). Brand new.

**G12771 $7.95 ea.**

### Great Sounding Stereo Headphones



Excellent quality replacement headphone features adjustable headband, frequency response of 20-20KHZ, weight 48 grams, soft foam ear cushions, 32 ohm impedance and standard 3.5mm molded stereo plug. Brand new in plastic bag.

**G4185 $1.49 ea.**

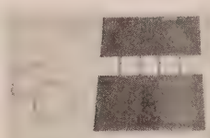
### Super Bass Turbo Headphones

Made by one of the most popular makers of quality audio products, these comfortable lighweight headphones produce beautiful stereo sound. Since the ear buds barely rest in the ear these provide greater comfort and they are easier to keep clean. Brand new worth much more than our low price. Has flexible cable with stereo 3.5 MM plug for almost all types of portable CD, cassette players, radios, etc. Has adjustable metal headband and grey plastic side pieces. Model type Tracker™.

**G9316 $3.49 ea.**

## NASA Space Exploration Wafer Thin Heating Elements

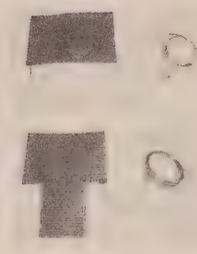
These were made for various NASA "Space Programs" including Landsat, Telestar, and Mars Observer. They are new and prime and were excess after the project was completed. They are used to keep batteries and electronics functioning when the space vehicles are exposed to temperatures such as 130°K (-226°F) on Mars. A large variety of shapes, sizes and wattage ratings of these 0.01" thin heaters were to be used. Each has a sealed grid heating element and each starts producing heat as soon as electrical power is connected. We connected 12V to one and after several seconds if felt warm, however different types produce different amounts of heat from different voltages. All are brand new with long insulated leads. Some come with peel and stick surface to make it easy to attach to a chassis or battery, etc. Hurry, the last time that we had these they sold out fast. Made by Minco, and other top names. We are selling these at a small fraction of the original cost.



◊ Type 3

| | | | | | |
|---|---|---|---|---|---|
| Type 1 | Rectangular: 2 3/4" x 4" | Minco HK15949 | 171Ω • 77watts | G4549 | $5.95 ea. |
| Type 2 | "T" Shape: 5 1/2" x 4"* | Minco HK18911E | 97.6Ω • 106.49watts | G4550 | $6.95 ea |
| Type 3◊ | Rectangular: Total Size 6 1/2" x 5 1/4"* | 2280052-3260 | R1&R2 350Ω R3 1.15Ω • 7.42watts | G4551 | $7.95 ea. |
| Type 4 | Rectangular: 9 1/2" x 1 11/16" | Minco HK15771 | 60.6Ω • 29.0watts | G4552 | $8.49 ea. |
| Type 5 | Rectangular: 5 1/4" x 6 7/8" | Minco HK18905D | 350Ω • 7.42watts | G4553 | $9.00 ea. |
| Type 6 | 3" x 11" Triangle | Minco HK14967 | 92Ω • 89.6watts | G4554 | $9.50 ea. |
| Type 7 | 3" x 20" Triangle | Minco HK13383 | 15.6Ω • 57.8watts | G4555 | $10.00 ea. |
| Type 8 | 4" x 28 3/4" Triangle | Minco HK14965 | 67.5Ω • 323.4watts | G4556 | $12.00 ea. |

*=has peel and stick mounting



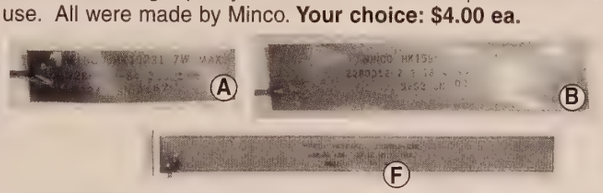
H

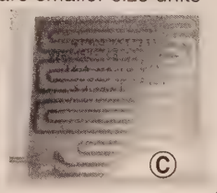
## Miniature Heaters

These are from a NASA Space Exploration program and are only .01" thin. Each is a high quality unit with flexible hookup leads. These are smaller size units–each with a special grid and power rating. They are brand new ready to use. All were made by Minco. **Your choice: $4.00 ea.**

| Minco # | Fig | Rating | Size | Stock # | Price |
|---|---|---|---|---|---|
| HK10231 | A | 7watt 360Ω | 0.5" x 2" | G5075 | $4.00 |
| HK15951 | B | 18.4watt 780Ω | 0.75" x 3.5" | G5076 | $4.00 |
| HK11239 | C | 13.5watt 50Ω | 1.31" x 1.31" | G5079 | $4.00 |
| HK18986E* | F | 37.12watt 280Ω | 0.75" x 8" | G5083 | $4.00 |

* Peel & Stick Type



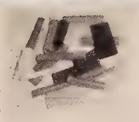

## Small Heater Assortment

Assortment of 3 different types and sizes of small heaters made for NASA. To use simply connect up to a battery or other source of power. Each is only .01" thin. All have flexible wire leads and each is brand new prime–fully marked. Sizes may vary from about 1" up to as much as 5".

**G5085 $10.00 / Assortment of 3**

# Heat Shrinks

## Bag of Heat Shrink

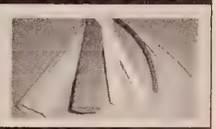


Handy assortment of 25 pieces of various color, diameter and length heat shrink tubing. Length ranges from about 1" to 3", and diameter ranges from 3/32" to 3/4". Very useful.

**G179 $1.00**

**Visit us online at: www.goldmine-elec.com**

## Heat Shrink

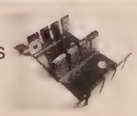


Highest quality heat shrink tubing by Alpha, 3M and other quality manufacturers. This is fresh prime heat shrink for almost every application you can think of. Each piece is 4ft long.

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| G1223 | White | 3/64" | $1.00 | G1248 | White | 1/4" | $1.40 | G1263 | White | 3/4" | $2.00 |
| G1228 | White | 3/32" | $1.00 | G1249 | Clear | 1/4" | $1.40 | G1264 | Clear | 3/4" | $2.00 |
| G1229 | Orange | 3/32" | $1.00 | G1250 | Black | 1/4" | $1.40 | G1265 | Black | 3/4" | $2.00 |
| G1232 | Black | 3/32" | $1.00 | G1254 | White | 3/8" | $1.50 | G1267 | White | 1" | $2.50 |
| G3946 | Brown | 3/32" | $1.00 | G1256 | Clear | 3/8" | $1.50 | G1269 | Blue | 1" | $2.50 |
| G1241 | White | 1/8" | $1.25 | G1257 | Black | 3/8" | $1.50 | G1270 | Black | 1" | $2.50 |
| G1245 | Purple | 3/16" | $1.25 | G1261 | Black | 1/2" | $1.70 | | | | |
| G1246 | Clear | 3/16" | $1.25 | G1262 | Yellow | 3/4" | $2.00 | | | | |

# Heat Sinks

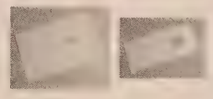
## Dual Heat Sink for T0220



Heat Sink for holding 2 plastic T0220 semiconductors. Features two 440 taped mounting holes and black anodized aluminum. Size about 1.5"(W) x 1"(H) x .6"(D)

**G2109 $1.00 ea.**

## Heat Sink Silicon Pad



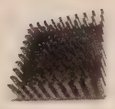
Superior replacement for mica and grease. Simply place this insulating silicon pad between device and heat sink (no messy grease needed) for better heat transfer! For all T0220 etc. plastic power devices.

**G174 10/$1.00**

As above, but for smaller plastic power devices

**G175 12/$1.00**

## CPU Heat Sink

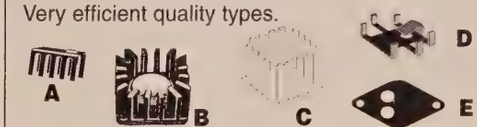


Efficient 30mm SQ. x 10mm high heat sink made for directly attaching to your cpu. Complete with peel and stick special thermal transfer surface. Black annodized aluminum.

**G2108 $1.00 ea.**

## Black Anodized Aluminum Heat Sinks

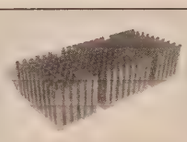
Very efficient quality types.




| Stock# | Size | Device Type | Fig. | Price |
|---|---|---|---|---|
| G5115 | 3/4" x 1/2" | T0220 | A | 3/$1.00 |
| G2017 | 1 7/8" x 1 7/8" | T03 | B | $1.00 ea. |
| G5116 | 1 3/4" x 1 3/4" | T03 | C | $1.00 ea. |
| G6075 | 3/4" x 1" | T0220* | D | 3/$1.00 |
| G6078 | 1 9/16" x 1 1/16" | T03† | E | 2/$1.00 |

*=CLIP-ON TYPE †= Flat Heat Sink

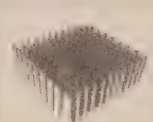
## Super Large Heat Sink



Black anodized aluminum heat sink type HS10198 measures 4 7/8"L x 2 3/16"W x 1 1/4"Tall. Features 4 mounting holes and a large quantity of fins for efficient cooling.

**G2209 $2.98 ea.**

## Giant Heat Sink

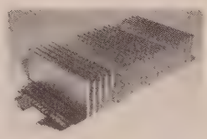


Type HS10199 by Wakefield is 3" x 3 1/8" x 1 5/16"H. Features massive quantity of cooling fins. Black anodized aluminum. Great for high power audio, computer or power supply applications.

**G2208 $2.98 ea.**

# Heat Sinks

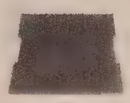
### Large Aluminum Heat Sink



Large 5 3/8"L x 2 1/16"W x 1"H heat sink has 4 holes for mounting a fan (not included). Made by Foxconn (part # 00N7285). Natural anodized aluminum with efficient cooling fins.

**G2207 $2.98 ea.**

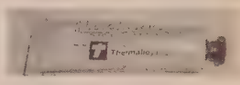
### Peel & Stick Ultra Thin CPU Heat Sink



Very simple to use heat sink for your CPU features an overall size of 44mm (1.73") sq x 2.8mm (.11") thick, allowing it to fit where other heat sinks can't. Simple to use - just peel off backing and stick on. Black anodized aluminum.

**G12709 $2.49 ea.**

### Thermal Joint Compound



Standard white thermal joint compound for use when mounting semiconductors to metal heat sinks. Made by Thermalloy Inc. and branded Thermalcote™. New tubes ready for use.

**Giant 2 oz Tube G12747 $4.00 ea.**

# High Tech Items

### Deluxe Ruler Calculator

This compact ruler is actually a translator and a calculator also. The translator can translate words back and forth from English to Spanish, French or German and it even has many common phrases already programmed in that can also be translated. The calculator function features 12 digits, currency conversion, percentage and memory function. Of course it's also a very high quality 8" long ruler with a metric and an inch scale. The ruler features a large easy to read LCD display, raised buttons on the keyboard and it even comes with batteries. You will be impressed with the quality and detail. This handy item is perfect for people who say they have everything they need! Brand new in box with instructions.

**G9919 $9.95 ea.**

### Hearing Enhancer Listening Device Kit

Here's a great way to enhance your hearing range. We have packaged up the DB50 personal stereo receiver with a regular set of headphones (not the turbo type) , along with a G7229 microphone, a resistor, a 9V battery snap and some instructions. We show you how to modify the mike using these parts to make an extremely sensitive listening device. You only need to solder the parts as shown, connect a 9V battery (not included) and you're in business. Makes a great gift for anyone who needs a little assistance in hearing, or if you wish to listen to animals in the forest, etc.

*NOTE: Receiver has a built-in rechargable battery and comes with an adapter.*

**G8486 $12.00 ea.**

### Chaparral DB50 Personal Stereo Receiver with Standard Headphones

These are brand new and are complete with headphones, a ni-cad battery pack and charger. They were designed for theater use, public facility tours, museums, etc., which transmit in the 72-76Mhz range. They are very high quality and feature red LED on indicator, red LED charging indicator, volume control, individual tone control for each channel, a slide type balance control, tuning control, bass boost switch, removable belt clip and standard headphones. The sound quality is great and we were able to tune in the sound from TV channel 12 in our area. These were made for heavy duty use and were probably in the $100.00 cost range - We really don't know - but they are brand new with charger and headphones. Complete and ready-to-go but you won't receive standard FM band stations as they are in the 88-108MHz range. If you can make your own simple transmitter or if you wish to try to listen to transmissions in the 72-76MHz range these are fabulous- you won't believe the sound and the quality! Brand new!

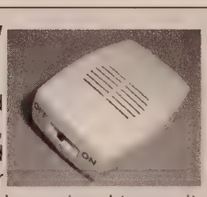
**G8520 $10.00 ea. • 10/$75.00**

### Voice Transmitter/Receiver Pair

Made for a hands free cellular phone setup and consist of a small self contained transmitter which uses 2AA batteries (not included) and a small receiver unit which plugs into a cars cigarette lighter. The transmitter features a sensitive built in electric microphone, a push on/off switch a red "on" indicator and a transmitter circuit which can transmit any sound in a room to the receiver which can be located 50ft away. The receiver has a coiled cord with a plug that must be cut off so that you can connect together 2 sets of wires (we supply the info). After this modification just supply 9 to 12VDC to the cigarette plug terminals and you can have a high quality receiver for the transmitter unit. Receiver has a volume control and an "on" indicator plus a built in high quality speaker. Set consists of one transmitter and one receiver unit (which you need to modify per our simple instructions). These originally cost up to $100 each and are new. May vary slightly from picture.

**G1782 $10.00**

### Portable Ultra-Chime™ Satellite Receiver



Nifty compact ivory colored case unit with built-in speaker, 9V battery compartment and sophisticated RF receiver board. This was meant to receive a signal transmitted from a wireless doorbell transmitter up to 100 feet away and emit a pleasant sounding 2 tone door chime. It operates from a 9V battery (not included). These are brand new, attractive units, however, the transmitter unit is not available, so we are selling them cheap!

Here are a few possible uses :

1) Attractive 3 1/2" x 2 1/2" x 1 1/4" project box.
2) Receiver to hear RF signal that it is designed to receive (we show you how to modify it by moving one of the speaker leads).
3) Electronic door chime sounder (we show you where you can connect 2 points on the PC board to make it sound).
4) A high tech tester for VCR/TV infrared remotes which emits a 2 tone when an IR signal is received (requires one of our IR sensors G7257@$1.50).

These are just few of the hundreds of uses you can put this unit to. Brand new in retail blister card, plus page showing how to modify it for the applications we've shown above.

**G8082 $2.95 ea.**
**Factory box of 6 units: $15.00**

### 12VDC Operated 15KV Negative Ion Generator

Compact negative Ion generator cleans air of impurities and provides a fountain of fresh air. Negative ions are produced during a thunderstorm and these are the same type that this 2 1/4" x 1 5/8" x 7/8" module produces. Operates from 12VDC (can even operate from a 9V battery at slightly reduced output). Simple to use, just connect 12VDC to the red and black power input leads and a tremendous quantity of negative ions will be emitted by the needle assembly shown. These are brand new factory fresh prime units perfect for homes, cars, offices, etc.

**G9695 $12.95 ea. • 2/$25.00**

### 120VAC Negative Ion Generator

Compact negative Ion Generator cleans air impurities and provides a fountain of fresh air. These negative ions are the same type that are produced in a thunderstorm. This unit is similar in size and operation to our 12VDC negative ion generator that we sell except that these are set to 7.5kv and can operate directly from standard 120VAC. Very simple to use simply-just connect any AC line cord to the black and white power leads and a tremendous quantity of negative ion will be emitted by the 4 needle emitter assembly shown. Fully encapsulated module is about 2" x 1 5/8" x 7/8". Brand new!

**G1783 $10.95 ea. • 10 for $99.00**

**4' White line cord**
**G1784 $1.00**

### Wireless Microphones

MC-125

Great quality wireless microphones that are unidirectional and powerful. Similar to professional units costing much more. These are great for PA systems, lecturers, karaoke, church applications, etc. These are ready to use- just install 1 AA battery into mike and 2AAA batteries into receiver. Insert the 1/4" receiver jack into your amplifier input and you're in business! We have 2 different models available. The type MC-125 comes with a flat black metal case microphone, an optional 12 ft. microphone cord (in case you don't wish to use the wireless mode sometimes), a wireless receiver, and a carrying case. The MC-128 features a clip-on small transmitter unit, a lapel mike, a headband boom mike, a wireless receiver, and a carrying case. Both units are brand new with great sound and range.

**MC-125 G4285 $34.00 ea.**
**MC-128 G4286 $39.95 ea.**

MC-128

### DATA MASTER Scheduler Reminder Phone Book and Auto Dialer

This handy pocket sized data bank is a real time saver! It has a name-address-telephone number and memo file functions. This 20K memory unit also features alarm message and schedule reminder, a 12 digit memory calculator, currency exchange calculator, a 12/24 hour clock and calendar, decision maker, credit card and bank account management function, plus a very useful speed dialer for any phone. To do this, you can use the speed search function to find the desired name (one that you have entered into the unit's memory) of the person that you would like to call, hold the speaker to the phone mouthpiece and press the dial key–nothing could be simpler or faster. Brand new in box, complete with batteries, carrying case and operating manual. Perfect gift item for the person that has everything!

**G9907 $14.95 ea.**

### Wireless Shower Speaker System Type WSH-7

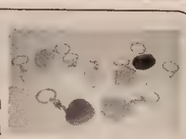
Special wireless speaker system.The receiver/speaker is white in color and can be used in your shower. Complete system includes transmitter, adapter for transmitter, cables, white receiver/speaker (requires four "C" batteries-not included), all in an attractive retail box.

**G8054 $41.95**

## Home Items

H

### Ultrabright Miniature KeyChain Squeeze Lights

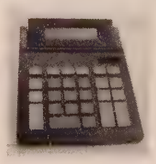


These fun lights come in several fun shapes and colors. Each one has a nice quality keyring for holding your keys. Now you can light up the keyhole with a bright orange glow from the super bright LED. One of the handiest useful items to have and they make great gifts or stocking stuffers. Brand new with internal batteries! Each light comes in a reclosable zip bag and is ready to use! List alternate choices to avoid dissapointment if we run out of your 1st choice.

**Pink Star G1651** **Green Star G1654** **Yellow Oval G1686**
**Yellow Star G1652** **Red Heart G1655** **Pink Oval G1687**
**Orange Star G1653**

**Your Choice $1.79 ea. • 10 for $15.00**

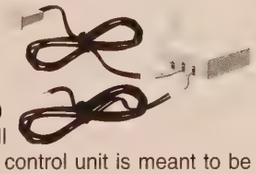
### Big Display 8 Digit Calculator



Large LCD Display calculator that can tilt upwards to accommodate viewing. Large keys have all of the important functions–perfect for balancing your checkbook, calculating ohm's law, or just having an extra calculator around for when the need to calculate something arises. Complete with built in battery. Brand new in manufacturer's box. Approximate Size: 5 7/8" x 7 1/2" x 1/2".

**G1749 $3.49 ea.**

### Lamp 3 Level Touch Control Kit



These handy kits were made by Leviton to turn any lamp into a touch control lamp that has 3 level dimming. Controls up to 300 watt, 120vac lamps. Small size: 1 3/4" x 1 1/2" x 3/4" control unit is meant to be hidden in the base of the lamp. After installation, simply touch any metal part of lamp or shade, and lamp will turn on at 30%, touch again for 70%, touch again for 100%. A fourth touch turns it off.

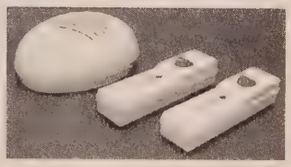
**G8325 $4.95 ea.**

### Magic Light Switch Finder

This tiny unit automatically flashes a small red LED to indicate the location of your light switch. Internal electronic circuitry only allows the indicator to flash at night, so the built in batteries last for a longer time. Very simple to use, just tear off battery activation strip, peel off double stick foam and sick it on. Like magic your indicator will flash when it gets dark. Very attractive unit is only 1 7/8" x 1 1/2" x 3/8" and will mount on almost all switch plates. Brand new - complete with built in batteries. Buy several - they are great items to give as gifts or to use in your own home.

**G1657 $2.49 ea.**

### Electronic Wireless 2 Door Ultra Chime™ Signaling System



This unique system requires no wires and features 2 distinct tones. Great for installing a doorbell on your front door and back door without wires. Each wireless door transmitter has its own distintive tone so the receiver output sound tells you where your guest is. Receiver operates up to 100 ft away from the transmitters and produces pleasant electronic chime sounds when the wireless transmitter doorbell button is pushed. Receiver features red led, volume control and plugs into any AC outlet. The receiver also requires a 9V battery (not included) for backup if the power goes out. Each transmitter features attractive case with red doorbell button, red LED and requires 9V battery (not included). Very simple to install–just mount on the wall (no wires to run). Complete system comes with 1 receiver and 2 transmitter doorbells. Has dipswitch type code settings so you can use multiple systems (without interference)! Brand new in retail blister pack.

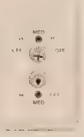
**G9424 $14.95 ea.**

### Digital Mini Travel Scale and Alarm Clock

Now you can continue to monitor your weight even when you are on a trip. This small 4 1/2" Dia. x 1 3/4" scale weighs only 13 ounces and easily slips into your briefcase or suitcase. It will measure your weight accurately and display it on the easy to read LCD display. You may select measurements in Kg or lb and it even remembers and displays your latest weight. Can also be used as an alarm and has a built in 24 hour clock. Perfect for the man or woman on the move! Requires 2 AA batteries (not included). Brand new in box with protective pouch and instructions. Black in color.

**G9893 ~~$49.95~~ ea. Sale! $29.95 ea.**
**Set of 2 AA alkaline batteries for above**
**G9918 $1.25**

### Four Level Fan Speed Control with Dimmer



Decora Quiet Fan Speed Control features reduced hum at low speeds, positive on/of switching and allows for full range of speed control for fan. In addition, it features a full range incandescent light dimmer. Fan control is rated 1.5 amps, 120VAC. Dimmer is rated 300 watts. Attractive and functional control for your home. Leviton part # 6620 available in white.

**G5009 $8.95 ea.**

### Decora Rotary Quiet Fan Speed Control and Lamp Dimmer

High quality stylish lamp dimmer and fan speed control offers convenient control of ceiling fans and their incandescant light fixtures for maximum comfort and efficiency. This model 6617-WSP by Leviton features two control knobs. The upper control knob turns the fan motor on (at high speed) and adjusts its speed. The lower knob turns the light on and allows for dimming and brightening. Rated 2.5A 120VAC/60HZ - fan, 300W 120VAC/60HZ - incandescant light. For use with split capacitor or shaded pole fan motors only. Mounts in standard wall switch box - has 3 wires (common, motor and light). White in color.

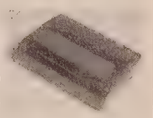
**G5010 $8.95 ea.**

### Pitney Bowes Automatic Electric Letter Opener

Model 1200 by Pitney Bowes is an ivory colored desktop letter opener designed to slice open letters. Simply place them next to the auto trigger switch and the unit quickly slices the top of the letter open. Overall size is about 10 1/4" x 8 1/4" x 4 3/4". Plugs into standard 120VAC outlet. These appear to be used and we don't have instructions however they are easy to use. May have a few minor scratches on case, but otherwise they are good in every detail.

**G9972 $8.95 ea.**

### "Clip on" Safety Flasher



Super bright flasher designed for joggers walkers, dogs etc. Clips onto belts, pants, back packs etc. Features 3 brilliant red leds which flash or can be made to "stay on continuously". Has red plastic lens and operates on 2 AA batteries (not included). Size about 1.9" x 2.7" x 1". Brand new in retail package.

**G12938 $2.49 ea.**

### Bike Flasher

Similar to above unit but comes with an additional bracket to mount to your bicycle.

**G12939 $2.99 ea.**

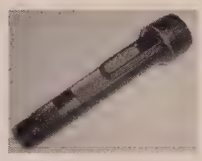
### First Alert Readylight™

Comes complete with built in rechargeable NICAD battery. Simply plug into the wall outlet and when the flashlight is recharged you can unplug it and as you turn it on,the AC plug folds up into the body of the flashlight. This small engineering marvel requires no external cords or adapters.Brand new. Works best if charged for 4 days(first time only).Small size only 6 1/4" long.

**Grey G9064 ~~$4.75~~ Sale! $2.75**
**Black G9326 ~~$4.98~~ Sale! $2.98**

# Home Items

### 2 Cell GE Flashlight



Powerful mini flashlight by GE features a high tech black plastic case and operation from 2 AA batteries (not included). This is a great product to have around the house or in the car. We use these all the time and are quite pleased with their quality. Brand new.

**G9961 $1.00 ea.**

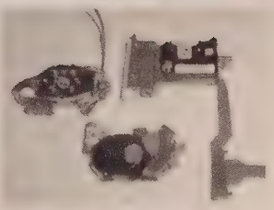
### First Alert ® Rechargeable Flashlight

Heavy duty rechargeable flashlight projects a brilliant beam! It's always ready when you need it because you leave it plugged into any AC outlet. Unique design has flip out AC prongs near on/off switch and built in internal charger circuitry and 2V lead acid rechargeable battery. Size of flashlight is 8 3/4" long with a large 3" dia. head. Includes a spare bulb inside flashlight. The flashlights are new in sealed blister packages, however these all have an unusable lead acid battery because it hasn't been charged in over 3 years. The replacement rechargeable battery can be purchased at most hardware stores or can be ordered by calling a toll free number on the battery that you slide out of the flashlight. The cost of the battery is about $5.95 here in Arizona. This high quality flashlight retailed for about $15.00 to $19.00 but if you don't mind spending a minute to slide off the cover, unplug the old battery and slip in a new one you'll save a bundle.

**G8711 ~~$3.95~~ Sale! $1.99 ea.**

# Infrared Items

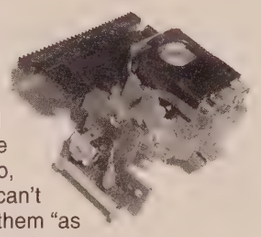
### Laser Diode Heads



These are small head assemblies removed from CD-ROM drives. They each include a smal IR laser LED. Some may have a small circuit board. Most have a flexible ribbon cable connector. We have no specs or other data except that we were told that almost all of the laser diodes are perfect but the drives that they were removed from had a mechanical problem. Sold "As Is" only.

**G8340 Pkg of 3 assorted Laser Heads $3.50**

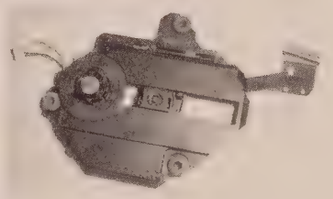
### Laser Heads



Complete IR laser heads from optical CD drives. These look complete and appear in good condition, however since we do not have any info, data or hookup info we can't test them and must sell them "as is". May vary slightly from picture.

**G9361 $1.00 ea. • 10/$9.00 • 100/$65.00**

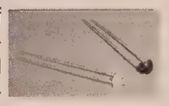
### Brand New CD Rom Drive Assembly



This is the main drive mechanism made for a CD rom drive. It features 2 quiet but powerful, efficient DC motors which operate from about 5VDC, various gears mechanical parts and an infrared "Laser Diode". The motors in these are perfect for use in Robots! Overall size about 3 3/4" x 3 3/8". New but no information available.

**G4119 $3.49 ea.**

### Micro Size IR Receiver and Emitter Pair



We just received thousands of these tiny IR emitters and companion IR receivers. Use them for all types of IR, remote control and robotic applications. Prime made by Telefunken. Sorry we have no data. You get one emitter and one receiver. Active area is on top of lens not the sides.

**G1846 $1.00/pair**

### High Output T1 3/4 Infrared LED

Prime high output T1 3/4" (5mm) infrared LED features a water clear lens and long leads. Perfect for hundreds of IR transmitter projectcts or IR remote control use.

**G2158 4/$1.00**

### Precision Swiss Made IR Object/People Deector

These are small precision made devices that are designed to detect objects on a conveyor belt, people, etc. They are extensively used in factory automation and consist of a sealed IR emitter and detector circuit all inside a compact 63mm(L) x 17mm(dia) encased sensor assembly head. The device has a flexible cable and is very simple to use. Simply mount the unit in the area where you wish to detect objects or people (such as a doorway). A reflector is mounted (not included but we tried a 2" x 4" auto reflector we purchased at a local discount store and it worked fine) up to 3 meters away. Connect any source of DC from 10V up to 30V to 2 of the leads and a load such as a chime, buzzer, relay, LED, etc. to the output leads now each time the invisible beam is interrupted, the load will activate or deactivate (your choice) then immediately reset when the beam is not blocked. These were made for continuous reliable industrial applications and as such were very expensive. They are new in their factory boxes with simple to use instructions. Made by Scientific Technologies Inc. and the original price of these were a fortune! Hurry as we have only a limited quantity. Note: If your factory uses other STI factory automation devices contact us for other items as we have several hundred different devices in stock on a very limited quantity basis at a fraction of their original prices.

**STI/ELESTA OLS372A310**
**Sensor Window on end**
**G1977 $29.95 ea.**

Same as left except sensor window is on side
**STI/ELESTA OLS372A320**
**G1979 $29.95 ea.**

### Precision IR Diffuse-Reflective Sensor

This is another precision Swiss made factory automation detector unit. This unit does not require a reflector to detect any object in front of its end window. It can detect objects, people, etc. up to about 8" away. Output can be connected to a relay, LED, chime, etc. Precision circuit is contained in a 63mm(L) x 17m(dia) encased sensor head. The device has a flexible cable and is simple to use-just hook power to 2 of the leads and a load circuit to the other 2. Included directions are very simple. These are industrial reliable devices designed for trouble free performance. New-made by STI/ELESTA model# OLS472A340. These are worth a fortune!

**G1982A $24.95 ea.**

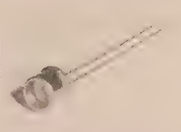
As above but long range will detect up to 18" away
**Model OLS472A350**
**G1981 $27.95 ea.**

### T1 High Output Infrared LED

Small high power infrared LED in a T1 clear case. Perfect for all types of infrared applications. Made by Kodenshi. Type # EL-7L.

**G5704 3/$1.00 • 100/$25.00 • 1,000/$200.00**

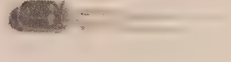
### Infrared Emitter



Small gold plated T108 infrared emitter outputs up to 3 milliwatts of infrared energy.

**G2817 $1.00 ea.**

### Super Infrared LED



Super output jumbo size infrared LED made for use in Zenith remote controls. Diffused grayish blue lens. High output unit actually produces 2 spots of infrared energy. Great for hundreds of infrared applications. Prime and unusual type LED.

**G2318 3/$1.00 • 100/$25.00 • 1,000/$220.00**

### Motorola Infrared LED Type MLED91RLRE

Prime IR LED on tape & reel.

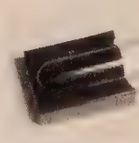
**G8283 5/$1.00**

### Miniature IR Receivers for Remote Control

Complete IR receiver type TSOP2836 by Vishay can be used in thousands of remote control projects. Can be used to operate a relay from up to 20' away with a TV remote control. These 3 pin devices are only 7mm x 6mm x 5.6mm and operate from any 36KHZ IR signal remote transmitter (TV remote). Brand new with spec sheet.

**G6042 $1.49 ea.**

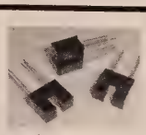
### TSOP 1140 IR Reciever Module



High sensitivity IR reciever alllows you to make thousands of IR remote control devices. These contain the detector amplifier and filter in one package. Simply add 1 transistor, a relay, a capacitor and a couple of resistors to make a 56KHZ wireless IR reciever capable of closing a relay contact when a 56KHZ IR signal is recieved. Made for use in VCR's, TV's etc. New with simple reciever schematic. Size 10mm(W) x 12mm(H) x 6mm(thick). Operates on 5VDC.

**G4354 $1.29 ea.**

### "Slot" Detector



Type HOA6971-N51 optical slot for end of tape or other types of detection. Prime units consist of IR LED on one side of slot and photo transistor on other.

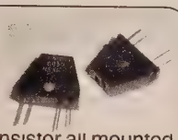
**G9384 3/$1.00 • 100/$18.00**

### Miniature IBM IR Port

Type IBM 31T1100 is a miniature IR port probably for laptop computers. Has 10 leads and looks like it was designed for surface mounting. We have absolutely no data on these except we do know they are 100% prime and marked with the IBM part#. Very recent overstock from one of the top laptop makers!

**G1847 2/$1.00 • 100/$25.00**

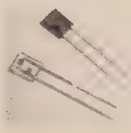
### Reflective Sensor/Emitter



Handy item for making object counters, object avoiding robots, object sensors, etc. Consists of a infrared LED and an NPN phototransistor all mounted in an opaque black plastic case with 2 tiny holes in the front end. The IR LED emits IR energy which will reflect back to the phototransistor when an object is near. Type HOA708-1. Prime marked units. Sorry no data sheet available.

| STOCK# G8669 | | | |
|---|---|---|---|
| 1-24 | 25-49 | 50-99 | 100 UP |
| $1.25 | $1.13 | $1.00 | 88¢ |

### Infrared Transmitter Receiver Pair



Honeywell Type 8506 infrared emitter and detector pair features red lens infrared side type emitter with 50 degree beam. Matching side looking detector type 8406 with clear lens.

**G2540 $1.00/pair**

### TV IR Emitter with Long Cable

These brand new prime assemblies were made for a television manufacturer. They were to control your cable box when you pressed the appropriate button on your TV remote (so you didn't need 2 remotes). These consist of an IR emitter enclosed in a .5" x .3" x .2" sealed see-thru case which has a peel and stick base and a 6 ft. long flexible cable terminating in a male 3.5mm mono plug. In sealed factory bags. Great for thousands of IR control projects.

**G12849 $1.00 ea. • 10/$8.00 100/$60.00 1000/$450.00**

### Micro Size Opto Slot Interrupter

These are the smallest slot interrupters we have ever seen . They consist of an infrared LED on one side and a phototransistor on the other. Size of body 3/16" square x 1/8" high.

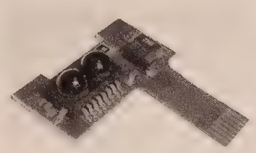
**G8751 2/$1.00 • 100/$45.00 • 1000/$400.00**

### Photo Detector

Small infrared detector made by Honeywell. These feature a black case with detector surface on the top. Has long leads.

**G9412 4/$1.00 • 100/$22.00 • 1000/$200.00**

### Laptop Computer Infrared Port



Small assembly is a complete infrared PORT module for a Laptop computer. The part # is G8UAP made by NEC. It consists of a 2 bubble opto device (one bubble is an IR LED the other is the IR sensor) and all associated circuitry, all on a 1 1/8" x 1/2" circuit board. These are brand new prime modules with all components and a flexible input cable. There are only 4 active leads: +, -, output, IR LED. We show you a diagram where these leads are, however we do not have the data sheet or any other info on how to use these. Looks like it would make a great "eye" for a Robot or make custom accessories for your IR compliant palmtop or laptop computer. Brand new - Prime!

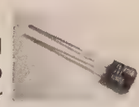
**G9229 $2.00 ea. • 10/$18.00 100/$175.00 • 1000/$1500.00**

### Miniature Precision Optics/Laser

These are the latest type of head assemblies from CD drives. They contain 2 miniature prisms glued together to form a cube, a miniature magnifying lens in holder, several miniature strong magnets, an IR laser diode, moving coils, and various other parts. The assemblies they came from were new, but we are selling these "as is". We have no specs or data, but we do know that the optical pieces were glued in and can be pryed off with a small screwdriver once the covering has been removed by taking the screws out. Approximate size is 2.5" x 1.1" x .75" (excluding cable). Sold as is only–no returns.

**G12812 $2.49 ea.**

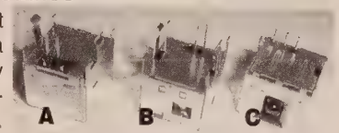
### TI Infrared Detector



Black case infrared detector by TI part#TI6556 911 is very sensitive to all infrared energy. Great for robotics, alarm sensors, IR communication circuits etc. Prime long lead marked units!

**G1135 $1.00**

### Infrared Modules



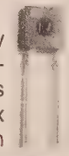

We have just purchased a good quantity of prime infrared modules. There has been many articles written about using these as the "heart" of various IR remote controls (TV's, VCRs, etc) and each has only 3 hookup pins. Each module operates on 5 to 9VDC and each can light a LED or close a 5V relay from up to 20ft. away using almost any TV/VCR remote control. Module and hookup diagram only-You provide LED or relay. Prime-Latest type modules. Compare our price to others!

| Stock# | Type | Fig. |
|---|---|---|
| G8155 | Sony SBX 1531 | A |
| G8156 | Sony 407-b322 | B |
| G8157 | Sharp GPIU581Y | C |

**Your Choice $1.79 ea.**

**100 of any 1 type - $150.00**
**1,000 of any 1 type - $1,200.00**

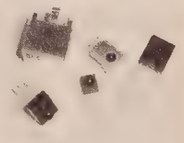
### Sharp PD49PI Photodiode



High speed, high sensitivity photodiode by SHARP is perfect for many infrared applications. Peak sensitivity wavelength is 1000nm. Size of photodiode is 7mm (W) x 7.6mm (T) x 2.7mm (D). Brand new with long leads.

**W22017 4/$1.00 • 100/$20.00**

### IR Receiver Module Assortment



Consists of 5 different factory new IR modules. Each is very sensitive to IR signals from remote controls. Great for experimentation, remote control, robots etc. We have no specs or data for these but we will include one representative schematic for driving a relay with one of the modules (using this you should be able to figure out the rest of them as each has only 3 leads). Brand new - Prime.

**G12958 $5.00**

## Jacks

### Standard 1/4" Mono Jack

Panel Mounting 1/4" jack features enclosed design and panel mounting nut.

**G4022 2 for $1.00**

### 1/4" PC Board Stereo Jack

Nice quality solid construction standard 1/4" stereo jack. These come with a panel mounting nut, but they can also be mounted directly to the PC board using the 3 pins.

**G13001 $1.00 ea.**

### Banana Jack Assortment

Colorful assortment of 4 different banana jacks. Each has a panel mounting nut and is of highest quality. You get 4 different colored jacks.

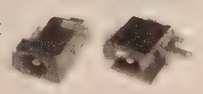
**G7120 $2.00**

### Replacement Power Jack

These accept male mono plugs such as on small headphones and certain adapters. With hardware.

**G5518 4/$1.00**

### Small Rectangular Power Jacks



These types are made for standard female barrel power plugs. Each has a closed circuit switch. Both types have 3 solder lugs for connection.

| 5.5mm | STANDARD PLUG |
|---|---|
| G7946 | 5/$1.00 |

| 7mm | LARGER PLUG |
|---|---|
| G7947 | 4/$1.00 |

### RCA to RCA Adaptor

Here's a handy item to have around! Adaptor features 2 female RCA phono jacks connected together in a small 1 1/2" long molded package. This allows you to extend speaker cables, stereo cables, etc. High quality gray and chrome connector.

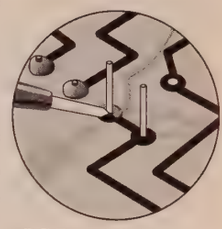
**G3128 2/$1.00**

### Uninsulated (ground) Banana Jack

Heavy duty banana jack designed to provide a ground input /output point on equipment. These are high quality types made E.F. Johnson. Complete with panel mounting nut and lug. Worth over $1 each.

**G8298 3/$1.00**

The Electronic Goldmine offers one of the largest selections of low cost, high quality electronic kits available anywhere. Thousands of these kits are sold each month to hobbyists, schools, technicians, engineers, commercial companies, etc. Each of these kits come with a drilled glass epoxy PC Board, all necessary electronic parts (except as noted on a few of the kits) and easy to understand instructions. You only need to provide a battery for the battery operated kits, and if desired, you may wish to provide a case. We recommend that you use a low wattage soldering iron and good quality rosin core solder when assembling your kits. You will also need to have a pair of wire cutters. Building our kits is both rewarding and fun, because they are thoroughly engineered, so that with proper assembly they work the first time! Skill levels should be observed as shown in the listing below.


PC Board Soldering

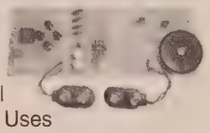
| Skill Level 1 *Beginner* | Skill Level 2 *Intermediate* | Skill Level 3 *Advanced* |
|---|---|---|
| No Previous Knowledge of Electronics | Have Built Kits Before<br>Knows AC Safety Precautions<br>Solders Well | Have Built Many Kits<br>Knows AC Safety Precautions<br>Solders Perfectly |

### Learn To Solder Kit

Special kit designed for the person who has no experience with soldering. The first 20 components are used to gain soldering experience, but the last 10 components, when soldered in, make a bright red and yellow alternating LED flasher! Practice components include: capacitors, a transistor, resistors, and an IC socket. Requires one 9V battery (not included). Size of board: 4.75" x 3". Skill Level 1

**C6445 $8.50 ea.**

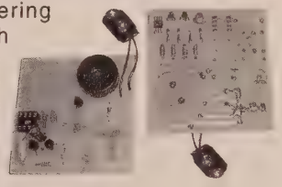
### Deluxe Learn to Solder Kit



Unique 3 kits in one! Consists of 13 practice parts for middle section, Insanity type alarm at one end and jewel LED flasher at the other end. Uses two 9V batteries (not included). Skill Level 1.

**C6491 $12.75 ea.**

### Universal Learn to Solder Kit



Kit teaches soldering technique for both standard and SMD components. After using both sides of the board to practice, the student will build a fully functional insanity alarm (C6240) which operates on a 9V battery (not included). Skill Level 1.

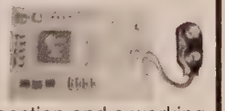
**C6758 $9.25 ea.**

### Learn to Solder Robot Kit

Consists of 2 circuit boards and various electronic parts that you solder to the boards. The eyes, center LED and both hand LEDs flash brightly for weeks continuously. Simple to build! The 3 1/2" tall x 7/8" wide Learn to Solder Robot uses one 9V battery (not included) which also allows it to stand on just about anything (keyboards, monitors, desks, books, etc.). Skill Level 1.

**C6845 $9.95 ea.**

### Deluxe SMD Learn to Solder Kit



A great way to gain experience in soldering, identification and use of Surface Mount Device (SMD) Technology. Includes a practice section and a working LED flasher. Uses 9V battery (not included). Size of PC board: 2" x 3". Skill Level 2.

**C6719 $9.25 ea.**

### Wake Up Alarm Kit

Sensitive CDS cell operated kit. Sounds like a crazed bumble bee when activated. Operates 2AA batteries (not included). Skill Level 2.

**C6481 $7.50**

### Turn Over Alarm Kit

When this kit is turned over, a loud tone goes off. Prop it up against your door to protect your privacy! Uses 9V battery (not included). Skill level 1.

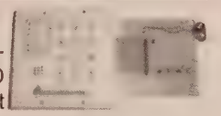
**C6378 $6.95**

### Secret Alarm Kit

Scare off anyone who opens your drawer. Arm switch and you have a couple of seconds to close the drawer. Uses 9V battery (not included). Skill Level 1.

**C6455 $8.50**

### Burglar Beware Kit



Realistic control panel with keyboard houses a 2 transistor LED flashing and SCR control circuit that "appears" to be the real thing. Uses 9V battery (not included). Skill Level 1.

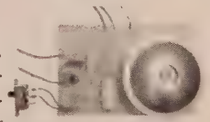
**C6472 $11.75**

### Water/Flood Alarm Kit

Emits a high frequency tone and lights a red LED when water comes in contact with its probe wires. Operates on one 9V battery (not included). Skill Level 1.

**C6848 $6.45**

### Burglar Alarm kit



Universal type burglar alarm kit. Operates on 6VDC. Has onboard horn and red LED "on" indicator. Can be used with either normally open or normally closed loops. Skill Level 1.

**C6280 $9.25**

### Window/Door Burglar Alarm Kit

Produces a loud pulsating electronic sound from the built in piezo speaker and it also flashes a bright red LED. A small magnet (included) needs to be attached (glued) to the movable window or door. Operates on a 9V battery (not included). Skill Level 2.

**C6703 $10.35**

### Professional Burglar Alarm Kit

Uses an IC circuit and has an exit time delay, an entrance delay, an automatic horn cutoff after a period of time, an automatic reset circuit, and N.O. and N.C. loops to allow you to use your choice of optional sensor switches, such as reed switches, snap action switches, etc. Operates from two 9V batteries (not included). Size of PC board: 3 1/4" x 2 5/8". Skill Level 2.

**C6785 $14.25**

### Deluxe Burglar Alarm Kit

Features loud sound, adjustable time out period and unique pressure sensitive switch that you construct from materials provided and conceal under door mat. Even has relay contacts to power lights, etc. Battery operated on 6VDC (battery not included). Skill Level 2.

**C6486 $12.99**

### Light Sensitive Sound Generator

Creates a tone which varies depending on the amount of light. Fun beginner kit. Uses 9V battery (not included). Skill Level 1.

**C4164 $6.50**

### 10 Note Sound Kit

Make robot sounds, computer effects, etc. Synthesizer features 10 adjustable notes, variable pitch and speed. Circuit features 3 ICs and 12 trimmer resistors. Uses 9V battery (not included). Skill Level 2.

**C4722 $15.75**

### Sci-Fi Sound Effects "Therimin"

Has 2 light sensors: one controls the frequency and the other modulates (varies) the sound. Simple one IC circuit with built in speaker and an RCA jack output. Operates from one 9V battery (not included). Skill Level 1

**C6841 $8.95**

### Music Maker Kit

Plays the tune "When The Saints Go Marching In" every time the button is pushed. Operates on one 9V battery (not included). Size of PC board: 2" x 2 3/4" Skill Level 2.

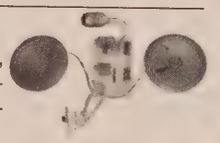
**C6714 $9.25**

### Megaphone Kit PA

Use as a small self contained system. Includes high gain electric microphone, IC audio amp, volume control and a 3" speaker. Operates on a 9V battery (not included). Skill Level 1.

**C6746 $9.25**

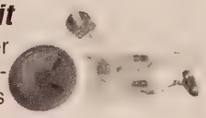
### Electronic Intercom Kit



Great for campers to cab, office, school, etc. Special noise reduction for clear sound. Uses 9V battery (not included). Skill Level 1.

**C4743 $12.99**

### General Purpose Amp Kit



Use as a full volume amplifier for computers or as an amplifier speaker output for various uses. Uses 9V battery (not included). Skill Level 1.

**C6238 $11.75**

### 20 Watt RMS Mono Amp Kit

High power amp for various booster applications. Very low distortion, features short circuit and open circuit protection. Operates from 12V DC. Skill Level 2.

**C6444 $22.25**

### 10W + 10W Stereo Amp Kit

Features one level control that sets level in both channels and red LED "on" indicator. Operates from 12VDC. Skill Level 2.

**C6443 $23.35**

### 20W + 20W Stereo Amp Kit

Great booster for car stereo. Two separate amps on one board, each with their own level control. Operates on 12VDC. Skill Level 2.

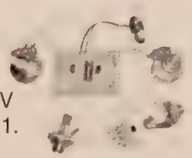
**C6442 $29.85**

### 80 Watt Car Stereo Booster Kit

Features two crystal clear 40 watt RMS channels for great sounding stereo sound! Operates from as low as 6VDC up to a maximum of 18VDC so it will work in any car. Power output with typical car input voltage of 14.4VDC is as follows: 40 watts per channel into a 2Ω speaker load or 25 watts per channel into a 4Ω speaker load. Maximum power occurs at 2 ohm impedance for each set of speakers. Features 2 level controls (one for each channel). Skill Level 2.

**C6817 $39.95**

### Fuzz Sound Kit



Produce sustained fuzz sounds with your electric guitar and this easy to build kit! Operates from 9V battery (not included). Skill Level 1.

**C6239 $11.65**

### 8 Note Tunable Electronic Organ Kit

Tunable 8 note organ features IC oscillator and darlington transistor output stage to provide clear loud tones. Operates from 3V to 9VDC. Size of board: 2" x 5". Skill Level 1.

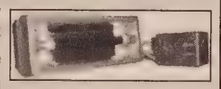
**C4736 $12.95**

### Portable Filtered Blacklight Kit

Uses long-wave 5 1/4" ultraviolet blacklight tube. Operates on either 6V lantern battery or 4D cell batteries (batteries and holder not included). Skill Level 2.

**C6790 $22.00**

### Deluxe Blacklight in a Case Kit



Features a sturdy and handsome gray custom case. An AC adapter is included so that the blacklight can be operated from standard 120 VAC. Size of case is about 7" x 3 1/4" x 2 1/4". For portable operation at night the kit can operate from 4 "C" cells (not included). Skill Level 2.

**C6786 $29.95**

### Single Channel Color Organ Kit

Easy to build kit causes lamps (up to 200 watts) to flash to the beat of the music. Operates from standard 120V AC.. Skill Level 2.

**C4738 $8.50**

### 120V AC Shimmering Light Kit

Make any lamp of your choice (up to 200 watts) shimmer or blink. Operates from standard 120V AC. Skill Level 2.

**C4737 $9.25**

### 120VAC 3 Channel Color Organ Kit

Popular 3 channel organ causes light to flash to the beat and frequency of the music. Great for lamps, Christmas lights, etc. Skill Level 2.

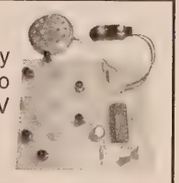
**C4530 $15.75**

### Sound Activated 3 Channel Color Organ Kit

Make lights of your choice (up to 200 watts per channel) to flash to the beat of the music without any connection. Operates from standard 120V AC. Skill Level 2.

**C6353 $25.99**

### Shimmering Color Organ Kit



Portable unit provides colorful display in response to music. Uses 12 jumbo LEDs, 6 each red and yellow. Uses 9V battery (not included). Skill Level 2.

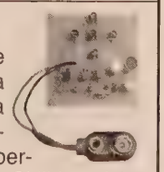
**C6446 $10.50**

### Exploding Star Color Organ Kit

The display is like a firework that is in sync with your music. No connection to your sound source is necessary as it uses an ultra-sensitive electret microphone to pick up the sound. Kit uses 25 total blinding output LEDS in red, green and yellow colors. Operates on one 9V battery (not included). Skill Level 3.

**C6818 $15.95**

### Bright Star Color Organ Kit



Features 5 bright LEDs that flash to the beat of the music. Circuit features a miniature electret microphone and a high gain 3 transistor circuit so no connections to your stereo are needed! Operates on one 9V battery (not included). Skill Level 1.

**C6815 $6.49**

### The Aggravator Kit

Place this kit in a hidden place in the room and it will wait in total silence until the room darkens. In the dark it begins its aggravating function: for about 2 or 3 seconds every 3 to 5 minutes it emits a screaming tone. Operates on one 9V battery (not included). Skill Level 1.

**C6840 $5.50**

### Crazy Chirper Kit

CDS cell circuit keeps unit silent until the lights go out! That's when chirper is activated driving unsuspecting guests crazy. Uses 9V battery (not included). Skill Level 1.

**C6470 $6.25**

### Irritator Kit

Produces irritating pulsating noise and irritating pulsating red light. Uses 2 red LEDs and Piezo speaker has slide control that allows speed adjustment. Uses 9V battery (not included). Skill Level 2.

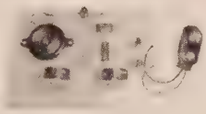
**C6485 $11.75**

### TOWS Kit

Terribly Obnoxious Woodpecker Sound (TOWS) kit produces the sound of what a crazed woodpecker might sound like. Uses 9V battery (not included). Size of PC board: 2 3/4" x 1 3/8". Skill Level 1.

**C6712 $5.95**

### Jungle Bird Kit



Have fun producing the sound of canaries or exotic jungle birds. Features 2 controls to produce various bird chirps. Uses 9V battery (not included). Skill Level 1.

**C6374 $8.50**

### Phasor Sound and Light Kit

Produces sound and light you've seen in space movies. You can control frequency of the sound. Uses 9V battery (not included). Skill Level 1.

**C6406 $8.50**

### Bright Yellow Beacon Kit

Mammoth clear yellow LED sends out a brilliant beam of penetrating yellow light at a flash rate you determine. Uses one IC circuit. Operates on a 9V battery (not included). Skill Level 1.

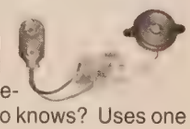
**C6731 $5.95**

### Mood Meter Kit

Features a colorful label that you glue onto the PC board and 10 bright colorful LEDs to indicate your mood. Blue LED= "Cool as a cucumber", Green LED= "Easy going", Yellow LED= "Warm hearted" and Red LED= "Smokin hot". Works of off your skin resistance Uses one 9V battery (not included). Skill Level 2.

**C6775 $12.50**

### Fish Caller Kit



This kit produces a clicking sound which is said to attract fish! Some costomers have reported excellent results, but who knows? Uses one 9V battery (not included). Skill Level 1.

**C4566 $4.75**

K

### Expression Flasher Kits

Each project kit features a custom designed full color label and a bright flashing red LED. These fun and easy-to-build kits make a perfect introduction to basic electronic circuit theory and transistor function. Operates one 9V battery (not included), Size of PC Board: 3 1/4" x 4 3/4". Skill Level 1. Each kit is sold separately.

| | | |
|---|---|---|
| **C6766** | **No Bozo Blinker Kit** | **$6.50** |
| **C6767** | **No Entry Kit** | **$6.50** |
| **C6768** | **No Smoking Kit** | **$6.50** |
| **C6769** | **Radiation Alert Kit** | **$6.50** |
| **C6770** | **Biohazard Kit** | **$6.50** |
| **C6771** | **Sleep Deprived Kit** | **$6.50** |

### LED Flasher Kit

This attention getter flashes a red and green LED. Easy to build. Uses 555 timer IC. Operates on 5 to 9V DC Skill Level 1.

**C3287 $4.75**

### Jumbo LED Flasher Kit

Simple to build kit uses a to flash a jumbo red LED. Makes a great first kit! Operates from one 9V battery (not included). Size of board: 1.25" x 1". Skill Level 1.

**C4567 $4.75**

### Tri-State LED Flasher Kit

This kit uses a trimmer control for continuous red or alternating red/green flashing from one LED! Great for beginners. Uses 9V battery (not included). Skill Level 1.

**C4069 $5.95**

### Super LED Flasher Kit

Perfect for robot projects, space models, warning lights, etc. Features 4 LEDs, 2 red, 1 yellow and 1 green that flash. Uses 9V battery (not included). Skill Level 2.

**C4407 $6.50**

### XXL Green LED Flasher Kit

Features 2 mammoth (10MM) green LEDs that alternately flash. Circuit uses 1 IC and operates from one 9V battery (not included). Skill Level 1.

**C6791 $5.25**

### Sequential LED Flasher Kit

Easy to build kit combines IC circuitry and 10 jumbo red LEDs, which continuously light sequentially from right to left. Uses 9V battery (not included). Skill Level 2.

**C4431 $10.25**

### Red Arrow Kit

Made up of 63 jumbo LEDs, the arrow lights sequentially and appears to move. Comes with 9V snap, but is adaptable between 5V and 12VDC. Skill Level 2.

| | | |
|---|---|---|
| **C6398** | **Red LEDs** | **$23.40** |
| **C6399** | **Green LEDs** | **$25.95** |
| **C6400** | **Yellow LEDs** | **$25.95** |

### Fireworks Kit

Creates exploding "fireworks" display. Features 17 micro red LEDs, 7 green mini LEDs and 1 jumbo red LED. Uses 9V battery (not included). Skill Level 2.

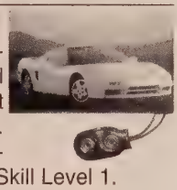
**C6454 $9.25**

### Rocket Flasher Kit

Great beginner kit. 4 colorful LEDs alternately flashing. A fun way to get started in electronics. Uses 9V battery (not included). Skill Level 1.

**C6420 $7.85**

### Sports Car Flasher Kit



Features a full color sports car picture with yellow lights and red tail lights. Unique PC board allows most components to be mounted on back. Uses two transistor circuity. Operates on 9V battery (not included). Skill Level 1.

**C6757 $6.50**

### Flashing Stop Sign Kit

This 5" red and white stop sign features 22 tiny red LEDs which flash at a variable rate you can control. Uses 9V battery (not included). Skill Level 2.

**C6788 $12.95**

### Flashing Yield Sign Kit

5" tall kit uses 23 bright yellow LEDs which flash at an adjustable rate. Uses a bright yellow and black label which you glue to the PC board. Uses one 9V battery (not included). Skill Level 1.

**C6782 $12.95**

### Blinking Robot Display Kit

Full color robot display features 4 red, 2 green and 1 yellow LEDs. Four transistor circuit forms Robot body and has full color Robot label that glues to the PC board. Operates on 9V battery (not included) Skill Level 1.

**C6756 $7.75**

### Magic Eye Robot Flasher Kit

Transmits a harmless invisible IR beam. When it detects a person or object within two feet, the robot will flash a greeting from four LED's, it turns off when person or object moves out of range. Operates on a 9V battery (not included). Skill Level 2.

**C6755 $11.25**

### Alien Mind Probe Kit

Consists of a large, fully assembled 2" dia. LED display made up of 14 blinding output red LEDs and 36 blinding output green LEDs connected to the control board which you build. A control on the board allows you to vary the rate of the alternating red/green flashing. In the dark it is almost hypnotic to stare at. Operates from 3AA batteries (not included). Skill Level 2.

**C6814 $17.95**

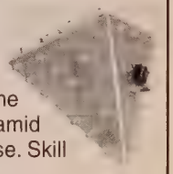
### 3D Shimmering Pyramid Kit

Uses 75 jumbo red LEDs on a 3 dimensional pyramid that stands over 4" tall and has a base of 6" x 6" x 6". Has a hidden control to vary the effect from an overall shimmering effect to a sequencing effect. Uses one 9V battery (not included). Skill Level 3.

(Please do not attempt this kit if you have never built a kit).

**C6437 $32.50**

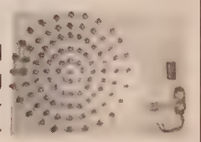
### Mysterious 3D Pyramid Kit



This mysterious and amazing kit features 47 bright LEDs that flash at a rate that you can adjust. Uses one 9V battery (not included). The pyramid is about 3" high and has a 4 1/2" base. Skill Level 2.

| | | |
|---|---|---|
| **C6792** | **Red LEDs** | **$16.85** |
| **C6793** | **Yellow LEDs** | **$16.85** |
| **C6794** | **Green LEDs** | **$16.85** |
| **C6795** | **Blue LEDs** | **$49.95** |

### Atom Expander Kit



This attention getter uses 98 red LEDs to produce "exploding atom" effect. For the experienced kit builder. Uses 9V battery (not included). Skill Level 3.

**C6373 $35.25**

### Fascination Star Kit

Produces a "star" visual effect using 25 LEDs and IC circuitry. Uses 9V battery (not included). Skill Level 3.

**C4432 $16.95**

### Flashing Triangle Kit

Triangle shaped LED flasher consists of 2 separate flasher groups, one flashing at a faster rate than the other. Features 8 jumbo red LEDs. Uses 9V battery (not included). Skill Level 1.

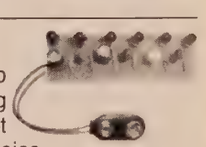
**C6440 $7.25**

### Giant LED Traffic Light Kit

Uses 3 giant 10mm LEDs. Just like a real traffic light, this smaller version slowly sequences through green, yellow and red lights. Uses one 9V battery (not included). Size of PC board is 3 1/4" L x 1 15/16" W. Skill Level 1.

**C6810 $6.95**

### Super LED Chaser Kit



Three groups of 2 LEDs light up sequentially to provide a stunning display. Uses one 9V battery (not included) and comes in your choice of colors. Skill Level 2.

| | | |
|---|---|---|
| **C6825** | **Red LEDs** | **$3.95** |
| **C6826** | **Green LEDs** | **$3.95** |
| **C6827** | **Yellow LEDs** | **$3.95** |
| **C6828** | **Super Bright Clear Red LEDs** | **$4.50** |
| **C6829** | **Super Bright Clear Green LEDs** | **$4.50** |

### 7 Speed Perpetual Blinker Kit

Kit blinks three powerful clear LED's, with seven different speeds, controlled by an 8 position DIP switch. Operates on 2 AA batteries (not included). Skill Level 1.

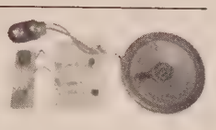
**C6744 $5.85**

### Coin Tosser / Decision Maker Kit

Features one red LED and a green LED that flash at high frequency when you touch sensor wires. One LED remains on when finger is removed. Uses 9V battery (not included). Skill Level 1.

**C6354 $4.75**

### Lie Detector Kit



Fun "poor man's lie detector"! Pitched tone varies if you are relaxed or nervous. Uses 9V battery (not included). Skill Level 1.

**C4657 $6.50**

### Time Reaction Tester Kit

If you ever thought that your sense of timing was good here's an electronic kit to prove it! If your timing is good the LED will stay on, if not the LED continues to flash. Uses one 9V battery (not included). Skill Level 1.

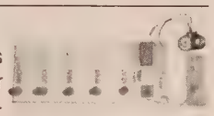
**C4516 $4.95**

### Super Time Reaction Kit

This fun kit tests your reaction time. Your reaction rating is indicated by labeled LEDs. Has an adjustable speed control. Uses 9V battery (not included). Size of PC board: 3 1/4" x 4". Skill Level 2.

**C6716 $11.25**

### Macho Meter Kit



5 LEDs flash when your fingers are on touch plate. Remove your fingers and your "rating" is indicated by LED remaining on. Uses 9V battery (not included). Skill Level 2.

**C6362 $11.50**

### The Tingler Kit

Are you a "Hero" or a "Wimp"? This kit will give you a chance to prove it! When you place your fingers on the touchpads, you'll then receive a "tingling" sensation from the varying intensity electrical voltage which you can adjust from "Wimp" up to "Hero." Uses one 9V battery (not included).Skill Level 1.

**C6740 $11.75**

### IC Decision Maker Kit

When you depress a small on board switch a bright green LED and a bright red LED begin to alternately flash. As soon as you release the button, one of the LEDs stays on indicating the decision. Uses a CMOS IC and operates on one 9V battery (not included). Skill Level 1.

**C6701 $4.95**

### Deluxe Decision Maker Kit

Displays the results to your questions using a variety of bright colored LEDs. Uses a 2 IC circuit and a label you glue onto the PC board. Uses one 9V battery (not included). Skill Level 2.

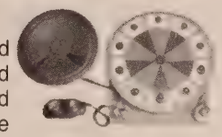
**C6780 $8.95**

### Attitude Selector Kit

Place your finger on the sensor wires and the "Happy Face" and "Sad Face" LED eyes will glow. When you remove your finger only one set of eyes will stay on indicating your attitude. Uses one 9V battery (not included). Skill Level 1.

**C6776 $6.50**

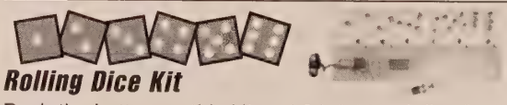
### Wheel of Fortune Kit



Push the button and 10 red LEDs appear to spin around wheel, as speaker ticking sound in sync. Release button to see what number the "ball" lands on. Uses 9V battery (not included). Skill Level 3.

**C3806 $14.50**

### Rolling Dice Kit



Push the button on this kit and 6 bright red dice "roll" rapidly. Release the button and one of the six standard dice patterns stays on indicating your number. Uses 9V battery (not included). Skill Level 1.

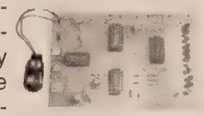
**C6412 $16.95**

### Electronic Slot Machine Kit

Has 3 different symbols that "roll" and "come up" one at a time. When all the symbols are the same a special winner tone sounds. Uses two 9V batteries (not included). Size of board: 7" x 5.5".Skill Level 3.

**C4723 $38.95**

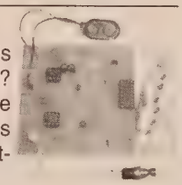
### Digital Racquetball Game Kit



This game is like playing racquetball against a computer opponent. The ball is represented by LEDs, and you have to "hit" the ball by pressing a button. Includes an adjustable speed control so that beginners will enjoy playing just as much as the "experts". Uses one 9V battery (not included). Skill Level 2.

**C6726 $18.15**

### Cliff Hanger Game Kit



Can you make it to the top of this electronic mountain without falling? A fun game of timing and skill make Cliff Hanger as much fun to play as it is to build. Operates from 9V battery (not included). Skill Level 2.

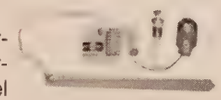
**C6723 $14.50**

### Alien Attack Game Kit

Aliens are attacking, and it is up to you to intercept their bombs before they reach the ground. A great game of skill to keep you on your toes! Operates from 9V battery (not included). Skill Level 3.

**C6727 $18.25**

### Plant Soil Monitor Kit



Two bright LEDs help to determine if your plants need watering. Adjustable to moisture level desired. Uses 9V battery (not included). Skill Level 1.

**C4744 $5.95**

### Phone Hold with Music Kit

This handy kit not only puts your caller on hold, but plays music to entertain the caller. Comes complete with AC adaptor. Size of PC board: 3 3/8" x 3". Skill Level 2.

**C6718 $16.95**

### Lamp Dimmer Kit

Easy to build unit can control up to 100 watts of AC lamps to provide different light levels. Uses SCR circuit with adjustable potentiometer. Operates on standard 120 V AC. Skill Level 2.

**C4655 $8.50**

### 0-9VDC Variable Power Supply Kit

Perfect for powering radios, small tape players or various electronic projects. Control sets voltage. Operates on 120VAC. Skill Level 2.

**C6438 $10.50**

### 0-12Volt Variable Power Supply Kit

Ideal for powering various electronic projects. Features a circuit protecting fuse, full-wave rectification, a LED power indicator, On/ Off switch, and a potentiometer. Outputs a maximum current of 125mA@12V and 200mA@10V or less. Skill Level 2.

**C6724 $10.75**

### 1 AMP Variable Power Supply Kit

Features red, yellow, and green LEDs that glow at different output voltages from 0-12V. Great for powering projects, calculators, radios, tape recorders. Operates on 120VAC. Skill Level 2.

**C6789 $23.50**

### Battery Tester Kit

Tests all types of common batteries. Features 5 calibrated trim pots to pre-set 5 types frequently used and has red and green LEDs. Uses 9V battery (not included). Skill Level 1.

**C6414 $11.75**

### Transistor Tester Kit

Use this kit to test both NPN and PNP type transistors. Useful for identifying unmarked transistors. Uses 9V battery (not included). Skill Level 2.

**C6448 $7.85**

### Continuity Tester Kit

A must for anyone working with electronic circuits. Traces shorted contacts, circuit path continuity, etc. Uses 9V battery (not included). Skill Level 1.

**C6385 $4.75**

### Super Continuity Tester Kit

Uses a special Darlington amplifier circuit to allow you to detect even AC fields, negative ions or static charges. Operates from one 9V battery (not included). Skill Level 1.

**C6787 $5.15**

### CMOS/TTL Logic Probe Kit

This logic probe was designed to operate with voltages between 5 and 20 volts. Operates from the power of the circuit being tested. Size of PC board: 3 5/8" x 1 1/4". Skill Level 1.

**C6722 $7.85**

### 3 Slot AC Outlet Tester Kit

This very useful tester checks outlets for 6 different faults or safety hazard conditions and displays the results. Uses bright "orange glow" neon lamps Operates from 120VAC. Size of PC board 2" x 2". Comes complete with a clear plastic box and label Skill Level 2.

**C6842 $7.80**

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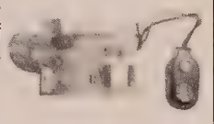
### Smallest Variable Strobelight Kit

Features an on board control to adjust the flash rate from about 35 to 240 per minute and it operates from a 9V battery (not included). Requires only about 60-65ma to operate. Size of PC board is 1 13/16" x 1 1/2". Skill Level 2.

**C6844 $12.95**

### 9V DC Strobe Warning Flasher Kit



Compact strobe flasher produces brilliant flashes of white light. Great safety device. Skill Level 2.

**C5175 $16.95**

### 6/12VDC Xenon Strobe Kit

Super bright xenon horseshoe shaped strobe provides a flash rate of approximately 30 per minute. Battery not included. Skill Level 2.

**C6361 $24.75**

### 12VDC High Power Strobe Kit

Brilliant xenon horseshoe strobe tube flashes at a rate you control, from 60 to 350 times per minute. Operates from 12V DC. Skill Level 2.

**C6460 $28.75**

### Dual Strobe Light Kit

Two straight xenon strobe tubes alternately flash at a fixed rate of about 120 per minute. Operates from standard 120V AC. Skill Level 2.

**C4622 $15.75**

### 120VAC Strobe Light Kit

Variable speed, 120 to 200 flashes per minute. Very popular kit. Great for parties, dances, etc. Operates on 120V AC. Skill Level 2.

**C3071 $14.30**

### 120VAC Brilliant Strobe Kit

Popular kit features horseshoe shaped xenon flashtube. Variable rate from about 120 to 300 flashes per minute. Skill Level 2.

**C4823 $18.25**

### 120VAC High Power Strobe Light Kit

Deluxe strobe light kit has control to vary flash rate from 60 to 300 flashes per minute. Uses horseshoe strobe tube and reflector. Operates from standard 120V AC. Skill Level 2.

**C4162 $23.50**

### Professional 120VAC Xenon Strobe Kit

Comes complete with a custom designed case. Features variable flash rate speed control, long life Xenon strobe tube with reflector, and sturdy beige case with smoked grey lens. Designed for heavy duty use with both thermal protection and overload fuse protection. Size approximately 4 3/4" W x 3 7/8" T x 3 1/8" D. Skill Level 2.

**C6765 $32.50**

### Fantastic Simulated Laser Kit

Emits a small red circle about 10 feet away in a dark room. Great for safely simulating lasers in science projects. Uses 9V battery (not included). Skill Level 1.

**C6394 $9.25**

### Laser Target Kit

Shine any laser pointer at this kit and a bright red star flashes when you hit it. Works at great range. Operates on one 9V battery (not included). Skill Level 1.

**C6739 $7.25**

### Laser Pointer Switch Kit

Control slide projectors, lights, sound sources, etc. during a presentation. Simply point your laser pointer at the large CDS cell and the kit responds by closing a set of relay contacts rated 1 Amp at 120VAC. To turn off the item just aim the beam at the CDS cell again. Operates from an AC adapter (included). Skill Level 2.

**C6733 $19.50**

### Infrared Transmitter Kit

Make your own "phasor gun" with this kit. Shoots high power IR pulse when button is pushed. Only works with C6392 kit (above right). Uses 9V battery (not included). Skill Level 2.

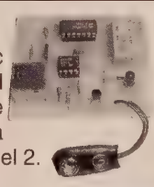
**C6393 $8.99**

### Infrared Target Kit

Red diamond pattern made up of 4 red LEDs flashes when hit by infrared beam. Super sensitive - works with all IR guns available. Great for tag games. Uses 9V battery (not included).Skill Level 2.

**C6392 $12.99**

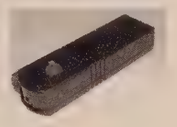
### IR Genie On/Off Switch Kit



Control lights, music, radios, etc with any TV, VCR or IR remote. Red LED indicator, two IC circuit. Range is from 18 ft to 28 ft. Operates on a 9V battery (not included). Skill Level 2.

**C6748 $12.95**

### IR Remote for Above Unit



Fully assembled remote with aproximately a 22 ft range. Requires one 9V battery (not included).

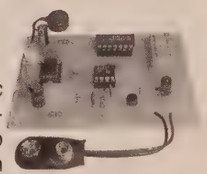
**C6506 $2.00**

### Remote Controlled Nightlight Kit

Simply aim any IR remote (that you already own) at this simple kit and 2 laser like brilliant LEDs light up and stay on for about 5 minutes. Uses one 9V battery (not included). Skill Level 1.

**C6777 $6.50**

### Sound Wizard On/Off Switch Kit



Control lights music alarms etc with a clap of your hands. Contacts remain closed until you clap again. Utilizes a 3 IC circuit with LED indicator and DPDT 1 AMP Relay contacts operates on 9V battery (not included). Skill Level 2.

**C6754 $12.95**

### Flashing Christmas Trees Kit

Red and green LED Christmas trees flash alternately in this colorful kit. Operates on 9V battery (not included). Size of PC board:3 5/8" x 1 7/8". Skill Level 2.

**C6711 $9.25**

### Magic Christmas Tree Kit

When a 9V battery (not included) is connected, the bulbs on the tree blink all red then all green and then back to red again. Size of PC board: 2 1/2" x 2 5/8". Includes color label which you glue to the PC board. Skill Level 1.

**C6773 $4.95**

### Flashing Hearts Kit

This unique kit features bright Red Hearts lined with 4 LEDs each. The Hearts beat back and forth at a rate determined by the ambient light level. Includes label that you glue on. Operates on one 9V battery (not included). Size of PC board: 4" x 3 1/16". Skill Level 1.

**C6779 $7.80**

### Heart Throb Kit

How fast will your heart throb? This kit is made up of 36 jumbo red LEDs in the shape of a heart. It responds to your skin resistance through touch pads. Uses 9V battery (not included). Skill Level 2.

**C6410 $12.99**

### The Haunted Pumpkin Kit

Here is the perfect kit to spice up your Halloween. In addition to alternately flashing its green LED eyes with its red LED nose, it also produces an eerie, spooky electronic sound from its piezo mouth. Uses one 9V battery (not included). Skill Level 2.

**C6783 $8.95**

### Screaming Turkey Kit

Colorful kit makes a great addition to any Thanksgiving celebration. Produces a screaming turkey sound and the colorful red, green, and yellow LEDs light up and flash. The 2 IC circuit features 2 separate controls to adjust the sound and flashing speed. Uses one 9V battery (not included). Skill Level 2.

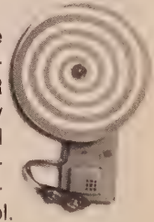
**C6784 $9.50**

### Electronic Cricket Kit

This electronic cricket starts "chirping" every time it gets dark. Of course, if you turn on the lights to look for the "cricket" it becomes silent again. Loads of fun. Uses 9V battery (not included). Skill Level 1.

**C6707 $6.50**

### IR Controlled Spinner Kit



Aim your remote at this kit and the bright red hypnotic wheel starts rotating. Uses a motor and a sensitive IR module to allow it to operate with any brand or type of IR remote control made. Uses one 9V battery (not included). Skill Level 1. NOTE: You provide the TV or VCR IR remote control.

**C6778 $6.50**

### Solar Powered SPACE EXPLORER KIT

This car is the "Sport Utility" type of solar cars, able to slowly rumble like a tank over grass, small stones or obstacles, and up slopes (40° or less)! This easy to assemble solar car has a high torque gear box, a tank type drive mechanism, and decals to customize your vehicle. Includes many fun and exciting experiments and a brief history of space exploration! No special tools are required and all of the soldering is already done for you! Size of the space explorer is approximately 8" L x 4 1/4"W. Can operate on 2 AA batteries (not included) or outside with its efficient Solar Panel (included).

**G1492 $33.95**

### SolarSport Racer Kit

This deluxe car is much more solid than other solar cars on the market today. All parts are rigid molded to exact specifications so that every car performs perfectly. Car body is light blue with a see-through top cowling. Operates from a high power 1.5VDC 400ma solar panel (included) or optional 2 AA batteries (not included). Complete with instructions which include several different experiments This car differs from the Solar Powered Space Explorer Kit we sell above in that it is faster and is designed for races on smooth surfaces and not slowly traveling on uneven terrain. The front wheels on the SolarSport Racer can be locked into different positions to allow the car to move in a large circle if desired. Size is about 8 3/4"L x 4"W. Simple to assemble as it requires no soldering! Skill Level 1.

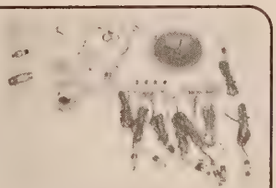
**C6821 $28.95**

### Hypnotic Bars Kit

This unusual kit consists of 10 bright green LED bars which shimmer or flash for a hypnotic looking display. Kit features 1 IC circuit with a "Bar effect" control to adjust the back and forth flashing for the optimum unique shimmering display. Although the kit won't hypnotize you it really has a unique attention getting display of bright green bars. Operates from one 9V battery (not included). Size of PC board 2" x 1 1/2". Complete with all parts, PC board and instructions. Skill Level 2.

**C6772 $6.45**

### Quiz Master Kit



This kit is the perfect answer to scholastic challenges, quiz olympiads, quiz answer bowls and any question/answer contest. Features 8 separate answer buttons and a master control board with 4 Red Team and 4 Green Team LED lights. The first contestant to answer after the question is asked causes 3 events to occur: A loud tone sounds, all other contestants are locked out, the contestant's indicator LED lights up on the Master Control Board to let the teacher know who to call on. The control board features a selectable time out tone that can be adjusted to any period of time from 3 seconds to 15 seconds. This tone is totally separate from the answer tone. With The Quiz Master you will have perfect judging every time—it never makes a mistake in choosing which contestant was first. Operates from 8 AA (not included). Overall size of board: 3.875" x 9.625" Complete with all parts, PC board, 100 feet of 2 conductor wire and instructions. Skill Level 3.

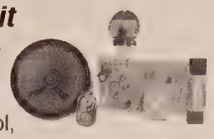
**C6419 $89.95**

### FM Wireless Microphone Kit

Tiny FM wireless microphone transmits every sound in a room to any FM radio. Use it as a baby monitor, one-way intercom, etc.. Size of PC board: 1 13/16" x 1". Operates from one 9V battery (not included). Skill Level 2.

**C6715 $7.85**

### 1 IC Speaker AM Radio Kit



This radio kit operates from a sophisticated radio IC and has a powerful antenna coil with a high grade ferrite core. Volume control, two transistor audio amp with power transistor. Operates on 9V battery (not included). Skill Level 1.

**C6749 $15.55**

### Two IC Speaker AM Radio Kit

Uses a sophisticated radio IC and has a powerful antenna coil with a high-grade ferrite core so no external antenna is needed. It has deluxe features including a volume and tone control and a powerful IC audio amplifier which drives the speaker. It has great reception and lots of volume! Operates from one 9V battery (not included). Skill Level 1.

**C6750 $19.50**

### AM Microphone Broadcast Station Kit

Be a DJ on any radio. Kit contains high gain electric microphone and two transistors. It also has a RCA jack to connect to your tape recorder or CD player. Operates on 9V battery (not included). Skill Level 1.

**C6752 $10.50**

### Metal Locator Kit

Transistorized circuit uses sensitive circuit and coil. Can detect up to 5" away depending on size of object. The metal locator detects metal by a shift in tone which is transmitted to a standard portable AM radio (you supply). Operates from 9V battery (not included). Skill Level 1.

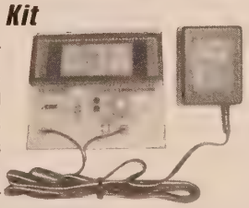
**C6742 $5.75**

### Touch On/Touch Off Switch Kit

This kit is perfect for people who desire the utmost in effortless automated devices. Simply bring your hand near the sensor on this kit (you don't need to actually touch it) and the kit will turn on a lamp, stereo, or radio. To turn it off, simply bring your hand near the sensor again! Works as an automated switch and has a relay that can switch up to 100 watts. Operates from an AC adapter (included). Size of PC board: 3 1/8" x 1 7/8". Skill Level 2.

**C6732 $15.55**

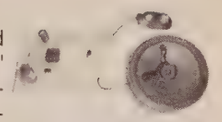
### Electronic Car Display Kit



Unique and attractive car display kit features a bright blue, yellow and orange glowing sportscar shape. The custom Futaba fluorescent display is the same display found in many expensive sportscar dashboards. Operates from a 9V adapter (included). Size of PC board: 3 3/4" x 4". Skill Level 2.

**C6705 $12.75**

### Manual Siren Kit



Produces loud upward and downward wail of a "police" siren as push-button is depressed. Good for sound effects. Uses 9V battery (not included). Skill Level 1.

**C6382 $7.80**

### Super Siren Kit

Loud irritating siren features 1 special IC that contains 3 transistors and a high gain power amp. Uses 9V battery (not included). Skill Level 2.

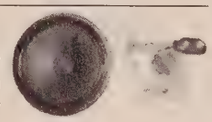
**C6474 $10.50**

### Gravity Controlled Siren Kit

Produces upward or downward "wail" depending on direction tilted. Rock back and forth for a "police siren" sound. Uses 9V battery (not included). Skill Level 1.

**C6377 $7.85**

### Secret Squealer Kit



This is a strange and amusing kit. It emits a strange high pitched squeal once every minute. It is pretty difficult to find because it only squeals for a second every minute. Uses one 9V battery (not included). Skill Level 1.

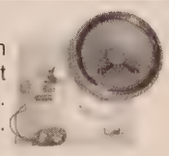
**C6379 $6.50**

### Insanity Alarm Kit

When you turn the lights off this kit emits a loud irritating tone. Turn lights on and it's silent. Uses 9V battery (not included). Skill Level 1.

**C6240 $6.50**

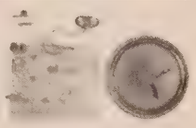
### GOT-YA Kit



You have to know the secret to turn alarm off. When picked up it makes a loud obnoxious noise. Uses 9V battery (not included). Skill Level 2.

**C6464 $11.75**

### "Tic Tic Boom" Kit



Features a loud "tic tic" sound which after a set time delay (approx 30to 60 seconds) changes to a loud steady scream. Uses one 9V battery (not included). Skill Level 2.

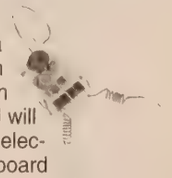
**C6387 $11.95**

### 44 Second Kit

Press the arming button and the kit gives you about 44 seconds (give or take) to get away before an electronic tone sounds and the number 44 lights up on the bright red display! Uses one 9V battery (not included). Skill Level 1.

**C6730 $6.45**

### SolarBug Kit



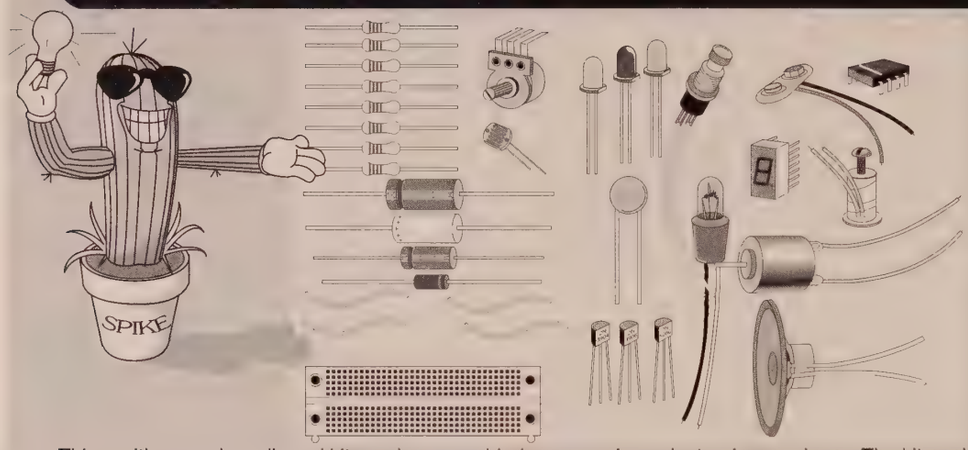
Produces a sound similar to a crazed cricket whenever the sun shines on it. Your tiny SolarBug can even be placed under a lamp and will "chirp" happily. Uses 4 tiny solar electric power generators. Size of PC board is about 2" x 15/16". Skill Level 1.

**C6843 $9.95 ea.**

K

**Build electronic projects WITHOUT SOLDER!**

## 33 IN 1 DELUXE ELECTRONIC EXPLORATION KIT




This exciting new breadboard kit requires no soldering or previous electronic experience. The kit enables anyone to build 33 different electronic experiments and activities. It's applicable for use in elementary grades up through college and is safe to use. The kit is meant to be used over and over again to save money. Not only is this kit complete with everything you need, but also the instruction booklet is designed so that even younger hobbyists or students can understand the concepts.

The experimentor builds and studies the first 11 instructional circuits which include theory and data facts along with a simple pencil activity quiz. The remaining 22 experiments for the experimentor are fun to build electronic circuits that have a parts list, schematic and parts placement drawing. These give an ample introduction to electronic components and circuitry.

Breadboard type kits have been around for years, however, ours is the first to incorporate an introduction to Ohm's law, electromagnet circuitry, motor circuitry, transistor circuitry, IC circuitry and 7 segment display circuitry all in **one** kit. There is now no need to have several different breadboard kits. One kit covers almost all aspects of basic electronic concepts and components.

Not only does our *33 in 1 Deluxe Electronic Exploration Kit* introduce various electronic educational concepts but it is also a fun and interesting motivational activity for anyone. Complete with all electronic parts, breadboard and instruction booklet.
Requires one 9V battery (not included).

**33 in 1 Deluxe Electronic Exploration Kit**
**C6709 $29.95**

**CHECK OUT THIS LIST OF ELECTRONIC LEARNING ACTIVITIES/EXPERIMENTS:**

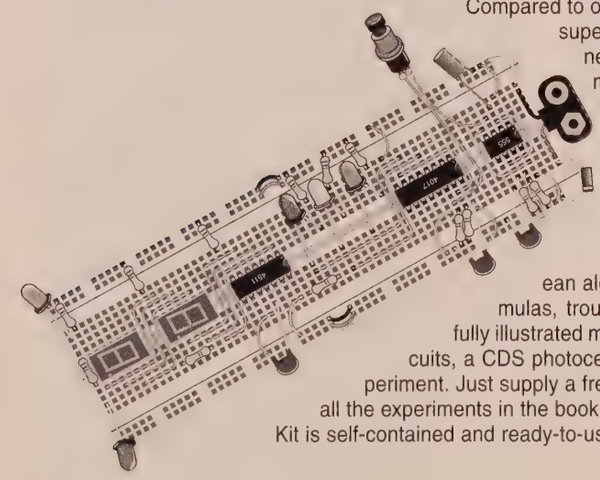
**Instructional Experiments**
1. Resistor Color Code
2. Ohm's Law and The Basic Electronic Circuit
3. Parallel Circuit with Lamp
4. Diode Action
5. Light Emitting Diodes
6. Electromagnetism
7. Capacitance
8. Transistor Switch
9. Variable Resistor LED Dimmer
10. DC Motor Experiment
11. Transistor Oscillator

**Electronic Construction Activities**
12. 7 Segment Display Circuit
13. SCR Latching Switch
14. Conductor Identifier
15. 2 Transistor Audio Oscillator
16. Continuity Tester
17. Multivibrator LED Blinker
18. Insanity Alarm
19. Light Controlled Bird
20. Code Practice Oscillator
21. Magic LED Light
22. Water Alarm
23. Ticking Clock Sound
24. Phasor Ray Sound Generator
25. Emergency Siren
26. Adjustable Blinking Light and Sound
27. Timer with LED
28. Electronic Motor Speed Control
29. IC LED Flasher
30. IC Adjustable Frequency Sound Generator
31. IC Light Activated Wake Up Alarm
32. IC 2 Color LED Flasher
33. IC Burglar Alarm

## 35 IN 1 DELUXE DIGITAL LAB EXPLORATION KIT

This lab does not require soldering, is reusable, and contains 5 lessons and 30 meaningful and exciting digital experiments. The booklet is fully illustrated with easy-to-follow pictorial diagrams and schematics. It is designed so that the teacher does not need to be involved (unless he or she desires to be). It is applicable for use in junior high grades up through college.

All experiments operate on one 9V battery (not included) so there are no dangerous voltages involved. Compared to other similar digital labs, you will find that this lab is far superior in that it contains a wider variety of digital components, including a double binary counter and two 7-segment displays, allowing the students to build "0 to 99" digital counters instead of only "0 to 9". This lab also includes LEDs of three different colors (red, green, and yellow), and uses a uniform prewired breadboard system which is applied in each experiment, along with reverse polarity protection and a switch wire to prevent damage to the ICs or battery snap.



This lab also covers more digital topics such as Boolean algebra, timing diagrams, frequency and duty cycle formulas, troubleshooting techniques. The kit includes a 96 page, fully illustrated manual, a large solderless breadboard, 6 integrated circuits, a CDS photocell, plus all other parts necessary to perform each experiment. Just supply a fresh 9V battery and nothing else is required to perform all the experiments in the book. The Complete 35 in 1 Deluxe Digital Lab Exploration Kit is self-contained and ready-to-use!

***CHECK OUT ALL OF THE LESSONS AND EXPERIMENTS!***

**35-IN-1 DELUXE DIGITAL LAB EXPLORATION KIT**
**C6721 $45.50**

Tips On Building The Experiments
The Universal Solderless Breadboard
Lesson 1: Introduction To Digital Electronics.
Lesson 2: Components, Gates and IC's.
Lesson 3: Combinational & Sequential Circuits, Boolean Algebra And Timing Diagrams.
Lesson 4: The Binary Numbering System.
Lesson 5: Troubleshooting Techniques
Exp. 1: The Logic Probe: "The Tool".
Exp. 2: The YES Logic Circuit: "The Buffer".
Exp. 3: The NOT Logic Circuit: "The Inverter".
Exp. 4: The AND Logic Gate.
Exp. 5: The OR Logic Gate.
Exp. 6: The NAND Logic Gate
Exp. 7: The NOR Logic Gate
Exp. 8: Building The Six Basic Logic Gates Using Only NOR Gates
Exp. 9: "The Clock"- Astable Multivibrator
Exp. 10: The 555 Timer IC.
Exp. 11: "The Timer" - Monostable Multivibrator
Exp. 12: "The Flip-Flop" - Bistable Multivibrator
Exp. 13: Reaction Challenge Game
Exp. 14: The Binary Counter/Divider
Exp. 15: Manual Binary Counter
Exp. 16. The BCD Counter (Decade Counter)
Exp. 17: Touch Activated ON/OFF Switch
Exp. 18: Seven Segment Display Decoder
Exp. 19: "0 to 9" Counter With Display
Exp. 20: Lucky Number Generator
Exp. 21: Electronic Die Game
Exp. 22: 0 To 9 Photoelectric Counter
Exp. 23: Sequential LED Flasher
Exp. 24: Triple Answer Decision Maker
Exp. 25: "10 by 10" Reaction Game
Exp. 26: Brightness Control Touch Switch.
Exp. 27: Macho Meter.
Exp. 28: "Go for the Gold" Game
Exp. 29: 0 To 99 Counter With Display
Exp. 30: 0 To 99 Photoelectric Counter

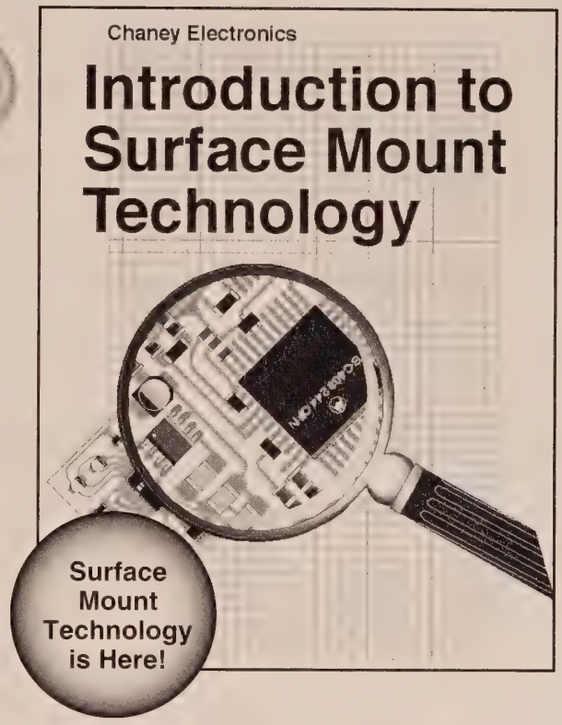
# Intro to Surface Mount Technology

This Chaney Electronics Training Course will introduce you to the latest assembly technology known as "Surface Mount Technology". Surface mount technology uses tiny leadless components, known as surface mount devices (SMDs) which are quickly replacing standard electronic components. Currently most electronic equipment incorporates this exciting new technology.

By completing this course, you will learn concepts about surface mount technology (SMT) such as: the different types of surface mounts devices (SMDs), the various types of surface mount assemblies, the automated soldering methods, and all of the stages of the manual and automated assembly processes of surface mount circuits. You will gain experience identifying, soldering and using surface mount devices by physically building an actual working surface mount technology project.

This course is the perfect introduction to SMT and does not require any previous knowledge of this topic. The course is self-contained and reusable with the exception of the SMT project kit: "Deluxe SMD Learn to Solder Kit" (Stock #C6719) which may also be purchased separately. A small soldering iron with a fine point and some solder is all that is required to build the included kit.
We are offering this training course at an exceptional value. So please don't delay, order your Introduction to SMT Course today!

Introduction to Surface Mount Technology Training Course with Experimentation and Project Building comes with detailed instruction manual, identification parts (both SMD and Standard), one "Deluxe SMD Learn to Solder Kit," and a magnifier with tweezers (pictured above).
**C6725 $28.95**

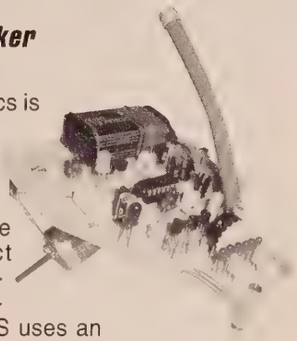





### Magic Color LED Sequencer Kit

The magic color sequencer kit uses 2 ICs and 5 special Bi-Polar LEDs to produce a very unique visual display. Produces brilliant moving "red dots" at first. After the 5 LEDs sequence red, the same LEDs produce 5 "green dots" in sequence. The pattern repeats itself over and over. Features speed control to adjust the sequencing from slow to fast speeds. Everyone that sees it is amazed. Operates from one 9V battery (not include). Size of PC board 3 1/8" x 2 1/4". Complete with all parts, PC board and instructions. Skill Level 2.
**C6863 $7.95**

### CE2S Soundseeker Robot Kit



Chaney Electronics is proud to introduce this fast soundseeking robot. Its unique unpredictable moves attract crowds of onlookers wherever it operates. The CE2S uses an IC and 7 transistor circuits with adjustable controls for motor activation times and sound sensitivity. Uses a sensitive microphone which constantly "sniffs" the area for sound. When it detects it, the colorful LEDs at the front of the robot flash and the robot stops for a second and then changes direction. Uses 15 LEDs total and is very colorful. You can even paint the PC board before you assemble it if you wish. Operates from a 9V battery (not included). Designed to travel on any smooth surface (not carpet or pavement). Size approximately 4.9" L x 4" W. Complete with all parts, PC board, 2 motors and instructions. Skill Level 3.
**C6882 $32.95**

### Alien Warbot Robot Kit

Activated by IR energy, this kit remains motionless until it detects IR energy. It will come to life when you press random buttons on any TV/VCR remote or by our IR Activator Robot Kit (to the right). When activated, it vibrates/scoots on any smooth surface and also flashes 7 bright LEDs. Movement stops as soon as the source of IR energy stops. Operates from one 9V battery (not included) and has a special vibrating motor disk and sensitivity control. Round PC board is 2 3/4" in Dia. and can be customized by painting it with your paint before you solder it (if desired). Complete with all parts, PC board and instructions. Skill Level 2.
**C6870 $14.95 ea.**

### IR Activator Robot Kit

Our special IR Activator Kit vibrates and scoots while flashing 1 red LED and 6 IR LEDs. If placed near an Alien Warbot, the IR Activator Robot will cause the Warbot to immediately come to life and either move towards it to attack or away from it to run! This kit is not activated by IR energy, in fact its job is to produce crystal controlled IR energy to activate IR sensitive robots. Operates from one 9V battery (not included). PC board is 2 3/4" Dia. and can be customized by painting it with your paint before you solder it (if desired). Complete with all parts, PC board and instructions. Skill Level 2.
**C6871 $15.95 ea.**

### Monkey Surprise Kit

Here's just the thing to surprise your favorite person! This fun kit can be hidden anywhere and although it is silent at first, it provides an irritating surprise later. Simply place a drop of water on the monkey's face, turn the arming switch to "on" and hide the Monkey Surprise Kit in the room. The kit will remain silent until the water on the Monkey's face evaporates. When it does, the kit will go crazy emitting a sound that is a mix between a crazed jungle bird and an irritated monkey. By the time it goes off you can disappear, unless you want to hear what your favorite person is saying about the disturbing racket. Operates on a 9V battery (not included). Size of main PC board is 2" x 1.25" and size of Monkey face is 1" square. Complete with all parts, PC board and instructions. Skill Level 1.
**C6877 $5.95**

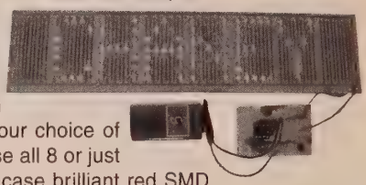
# Kits

### SMD Flashing Initials Kit

Very unique kit flashes two initials of your choice on and off. Features extremely bright red SMD LEDs that you install to form any two letters from A to Z or any two numbers from 0 to 9. Letters are 2" high and can be seen from quite a distance. Complete with 44 SMD LEDs, all parts, PC board and instructions. Overall size of PC board 2 1/2" x 3". Operates from one 9V battery (not included). Skill Level 3 (This kit is not for beginners).

**C6861 $12.95**

### SMD Flashing Name Plate Kit



This exciting Chaney Electronics kit features your "Name in Lights". Features space for up to 8 letters or numbers of your choice (A-Z or 0-9) made up of brilliant red SMD LEDs. Your name or simple message can be seen from across the room even in full light conditions. The name flashes at your choice of speeds from slow to fast. Each character is about 1 5/8" tall and you can use all 8 or just the quantity you need to make your name. We give you 150 special clear case brilliant red SMD LEDs (enough to make most 8 character names). Size of name plate PC board is 2 1/4" x 9 1/2". To cause your name plate to flash, a small 2" x 1 5/16" control board that uses regular "feed thru" (not SMD) components is used. This IC circuit features a variable flash rate speed control and operates from one 9V battery (not included). Complete with all parts, 2 PC boards and instructions. Sorry, no case available. Skill Level 3. Not for beginners.

**C6867 $29.95**

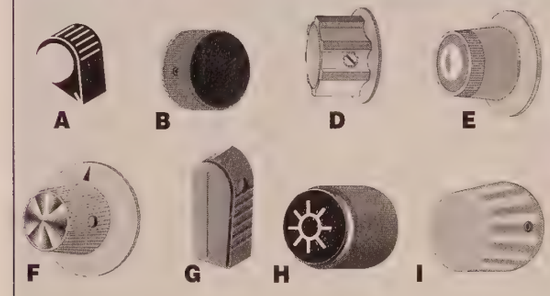
### White LED Stroboscope Kit

This portable kit optically freezes the motion of most motors, fans, pulleys, gears, drills, lathes, to allow for inspection under true operating conditions. Great for physics experiments, troubleshooting or demonstrating optical phenomena. Uses a White LED instead of a high voltage strobe tube. The kit has coarse and fine adjustment controls. It uses a 2 IC circuit which operates from a 9V battery (not included). Since it is not as bright as a 120VAC xenon stroboscope it is best to use it in reduced lighting environments, however even in normal room lighting the amazing stop motion effect can be viewed. Size of PC board 2 7/16" x 2 1/8". Complete with all parts, PC board and instructions. Skill level 2.

**C6885 $12.95**

# Knobs

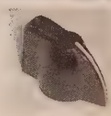
### Knobs for Potentiometers




| Stock# | Color | Fig. | Shaft | Price |
|---|---|---|---|---|
| G5029 | Blk/Chrome | A | 1/8" | $2.00 |
| G8422 | Black | B | 1/4" | $2.00 |
| G6026 | Black | D | 1/4" | $1.00 |
| G6027 | Beige | E | 1/4"* | $1.00 |
| G7223 | Grey | F | 1/4" | $2.00 |
| G7907 | Black | G | 1/4" | $1.75 |
| G7228 | Blk/Chrome | H | 1/4"* | $1.00 |
| G7280 | Gray | I | 1/8"* | $2.00 |

***Indicates that this knob must be used with a "D" shaped shaft.**

### Nice Pointer Knob



Standard black bakelight pointer knob as found on many pieces of industrial equipment. Fits all 1/4" shafts and has set screw. Shiny black color with white pointer stripe.

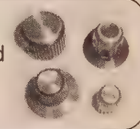
**G9463 $1.00 • 10/$6.00 • 100/$55.00**

### Deluxe Knob Assortment

These are 7 of the higher quality military and precision type knobs. All have set screw. Some are for the 2nd control on a dual control (has hole all the way through it). For 1/4" and 1/8" shafts.

**G5303 $5.00**

### High Quality Knob Assortment



Great assortment of 4 high quality set screw knobs some with brushed aluminum accents. All are black in color and fit standard 1/4" shafts. Brand new and very nice. Knob assortments will vary from picture as there are many types!

**G5086 $2.00**

# Lamps

### 3V Micro Lamp and Reflector

Tiny 3V lamp projects a brilliant white light from 7/8" Dia polished reflector. Overall size is about 1" long x 7/8" Dia. Brand new in plastic bags.

**G9725 $1.00 ea. • 10/$9.00 • 100/$75.00**

### Tiny Grain of Wheat Lamp

This lamp is smaller than a grain of wheat. Clear lens, wire lead. Operates from 3 to 6V. Very bright at 6 volts.

**G2545 2/$1.00**

### Standard Flashlight Bulb

Small clear glass round flashlight bulb operates from 1.5V and has a screw base. Perfect for replacement.

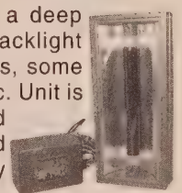
**G3811 3/$1.00**

### Tiny Lamps with Leads

Tiny lamps that operate from 6V. Very bright! Has 12" long flexible insulated leads.

**G9561 4/$1.00 • 100/$20.00 1000/$180.00**

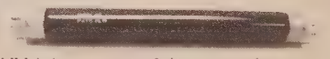
### Super Blacklight



Super power blacklight glows a deep purple and brilliantly lights blacklight posters, invisible ultraviolet inks, some currencies, certain minerals, etc. Unit is complete with a sophisticated circuit board and was designed for use by a cosmetic company for use in detecting skin problems. High quality completely assembled unit is about 7" L x 3" W x 2 1/4" D. It uses a 12VDC 500ma adapter (included) and its circuitry allows the unit to be turned on for one minute then it resets after another minute. The circuitry could possibly be modified for continuous on, however, we don't have any info. on how to do this or if it is even possible. We will tell you that the output of this is very bright and covers all of the longwave spectrum. Brand new in manufacturer box. Very unique and worth many, many times our price.

**G9589 $6.95 ea.**

### Super Range Filtered Blacklight Tube



Great for lighting blacklight posters, detecting invisible UV inks, counterfeit currencies, certain UV minerals, etc. Type MOOLIM F4T5 BLB is 5 3/4" Long (including terminals). It lights up with a deep dark purple glow when powered up. Great for replacement or new construction. Produces a dark purple glow when powered up. Great for replacement or new construction. Produces mostly longwave UV light.

**G9598 $5.95 ea.**

### Flashlight Lamp PR15

Standard bulb used in many common flashlights. These are very bright at 4.8V (3 cell flashlights) but also works fine in the 2 cell models.

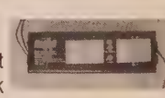
**G6744 2/$1.00**

### First Alert 120VAC Automatic Night Light

Plugs into standard 120 VAC outlet and turns on automatically at night then off in the morning. Uses only 4 watts of electricity but provides a nice light for security. Buy several for use in bedrooms hallways, etc. Brand new!

**G9333 $2.00 ea.**

### Fluorescent Ballast



Replacement ballast for fluorescent fixtures. We probably have in stock the right one for your fixture. Our ballast are brand new and contain no PCB's. All are boxed and have full length leads and for 120VAC.

Type 2 - Lights one 30 or 40 watt tube Model 1033 Size 6 1/2" x 1 7/8" x 1 5/8"

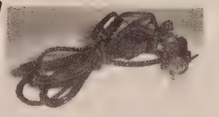
**G2252 $8.95 ea.**

### High Quality Fluorescent Magnifier Desk Lamp

Bright white fluorescent desk lamp features large 3 Diopter optical magnifier lens, 22watt circline fluorescent tube, and weighted base with inches and mm markings. This lamp has all types of tilt/height adjustments to allow you to work on your small projects with ease. Once you try this, you'll never want to be without it! Base size is 7 1/4" x 11 1/2". Height is about 14". Overall diameter of top magnifier/tube assembly is about 8 1/2". Black color–brand new in retail box. Operates on standard 120VAC.

**G12819 $69.95 ea.**

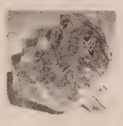
### Lamp with Cord & Switch



Great item to make color organs or decorative lights. Consists of a 5' line cord with built-in on/off switch and a snap in C7 120vac lamp installed. Cord plugs into standard AC outlet and even features a built-in fuse in the plug for safety.

**G2121 $1.00**

### Jewel Type Automatic Sensor-Lite



Completely automatic night light features attractive Jewlite display, solid state circuitry and variable intensity light. Night light lights up at night only to conserve electricity.

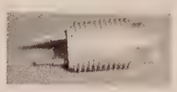
**G5833 $2.00 ea. • 2/$3.75**

### Super Bright T1 2PIN Mini Bulb for 1 Cell Flashlights

Replaces all miniature incandescent bulbs in 1 AA or 1 AAA flashlights. High brightness type. Worth over $1.00 each.

**G9306 4/$1.00 • 100/$20.00 • 1000/$150.00**

### Powerful 6V 6Watt Lamp



Powerful lamp features built in magnifying lens and solder terminals on base. Size about 0.9" L x 0.5" Dia. Has screw base and heavy duty construction.

**G1830 2/$1.00 • 100/$40.00**



### Rainbow of Colors T1 LED Assortment

You get 4 bright colorful T1 3mm LEDS: 1 blue, 1 red, 1 green and 1 yellow. All prime and beautiful to look at when lit up!

**G4256 $1.00**

### Bright Red T1 LED

Water clear lens, T1 (3mm) LED by Liteon Part #LT4206. Lights up bright red.

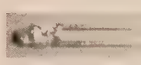
**G4242 12/$1.00 • Bag of 250 / $20.00**

### Bag of Tiny Red LEDs

Type BR2262S made by Stanley, light up a bright red color. These are axial types with a 3/8" long lead on each side and a pale pink see through lens. Sold only in sealed bag of 200.

**G9770 1 bag (200pcs) / $9.00**
**5 bags (1000pcs) / $42.00**

### HP Brilliant T1 Red LED



Clear lens 3mm (T1) led by HP (part#HLMP-K105) lights up a brilliant red. Prime quality LED. We are not sure of the output but it's probably in the 500-1000MCD range.

**G12868 5/$1.00**
**Factory Bag of 500 / $80.00**

### Crystal Clear Bright Orange T1 LED

Clear case T1 (3mm) LED lights up a bright orange color. Prime on tape and reel.

**G1650 20/$1.00**
**100/$4.00 • 1000/$35.00 • 10,000/$300.00**

### Brilliant Yellow T1 LED

Water clear lens T1 LED emits a brilliant yellow light. These are on tape and reel with full-length leads.

**G4275 10/$1.00 • 100/$8.00 • 1000/$75.00**

### Bright Green 9V T1 3mm LED

Crystal clear lens LED lights up a bright green when 9 volts DC is applied. Features a tiny internal resistor to allow for direct connection to a 9V battery. Can operate on voltages down to 3VDC at reduced light output. Makes a great compact battery tester! Made by Liteon.

**G4389 10/$1.00**

### T1 3mm White LED

Brand new factory fresh white LED features water clear 3mm (T1) lens and brilliant 300MCD output. Viewing angle is 30° and forward voltage is 3.6V to 4.0V. Forward current $I_F$=30ma. Pulse forward current 100ma. Emitting material is GaN. These produce a nice bright white output. Special introductory price.

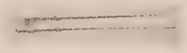
**G12900 99¢ ea.**

### Stanley Super Bright Red LEDs

Low current high reliability TI case red LED by Stanley. 6mcd@20mA typical output. Pastel diffused pinkish lens type. Peak wave length: 630nm, $V_F$=2.0V. These are brand new and very nice!

**G7862 20/$1.00**
**Sealed Bag of 200/$7.00**
**5Bags (1,000)/$30.00 • 10,000/$275.00**

### Bright Blue T1 LED



Prime bright blue LED type 264UBD features a light blue diffused lens. Brand new!

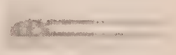
**G9831 $1.00 ea.**

### T1 3mm Ultrabright Red LED

Water clear lens red LED lights up with a bright orange-red glow.

**G4250 10/$1.00**

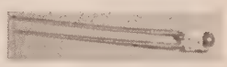
### Bright Orange Red T1 LED



Clear lens T1 (3mm) LED lights up a bright orange red glow. Nice quality LED at a blowout price. Long leads.

**G12968 10/$1.00 • Bag of 100/$8.00**

### Ultra-Bright T1 Red LED



Type HLMP-1340 by HP features water clear 3mm lens and brilliant red output.

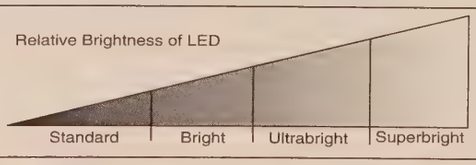
**G1920 8 for $1.00**
**Factory Bag of 500 for $50.00**

### Prime Bright Red LED

These are prime T1 (3mm) diffused red lens LEDs which light up bright red. They are brand new and on tape and reel with full length leads. Since they were designed for auto insertion they don't have the usual flat side or one shorter lead that denotes the cathode. Even though this fact doesn't impact the use or performance of the LED, it did enable us to buy over a million of these beauties for a blowout price, and we're passing the savings on to you. Sold in full reels only. You'll be impressed by the quality of this LED! Liteon part # LTL-ICHE-012

**G12700 1 full reel 1500 pcs. $19.95**
**G12701 Factory box of 2 reels (3000 pcs.)* $29.95**
***less than a penny per LED**

*PRIME! We sell only top quality LEDs by various manufacturers such as: Toshiba, Sharp, Stanley, Liteon and Hewlett Packard.*

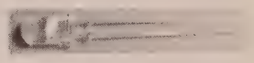



### T1 LEDs (3mm)

| Stock# | Color | Lens | Brightness | Fig. | Price |
|---|---|---|---|---|---|
| G1011 | Red | Diffused Red | Standard | A | 9/$1.00 • 100/$10.00 |
| G5305 | Yellow | Diffused Yellow | Standard | A | 12/$1.00 • 100/$7.00 |
| G2386 | Yellow | Milk White | Standard | B | 7/$1.00 • 100/$12.00 |
| G3298 | Yellow | Diffused Yellow | Bright | A | 15/$1.00 • 100/$6.00 |
| G6164 | Green | Diffused Green | Bright | B | 6/$1.00 • 100/$15.00 |
| G5637 | Green | Clear | Superbright | A | 5/$1.00 • 100/$18.00 |
| G8019 | Green | See thru Green | Superbright | A | 10/$1.00 • 100/$8.00 |
| G8300 | Orange | Clear | Superbright | A* | 10/$1.00 • 100/$8.00 |

* Tape & reel

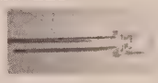
### HP 2500 MCD Orange LED



Super bright clear lens LED made by HP features a blinding orange output. Size of lens is 5mm (T1 3/4). Prime HP quality.

**G12867 $1.00 ea. • 10/$8.00**

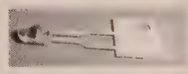
### 3000 MCD Ultrabright Blue LED



Crystal clear lens 5mm T1 3/4 LED lights up with such a brilliant beam that you can't look directly at it. These are factory prime LEDs with full length leads. Current 20ma, forward voltage 3.2V to 4.3V, min MCD 2000 - maximum 3500 (typical 3000). Viewing angle 25˚. Wavelength= 470nm.

**G12702 $2.39 ea.**
**10/$21.95 • 100/$190.00 • 1000/$1750.00**

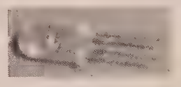
### Brilliant Orange Jumbo LED



Jumbo T13/4 5mm crystal clear lens LED lights up a brilliant orange color. Prime made by Siemens and on tape & reel.

**G2125 10/$1.00 • 100/$8.00 • 1000/$75.00**

### HP Laser-Like LED



Type QLMP-3730.25 made by HP produces a brilliant red light from jumbo water clear magnifying lens. Size T1 3/4. These are very bright! Prime with 3/8" long leads.

**G8413 5/$1.00**

### Jumbo T1 3/4 Orange Resistor LED

Simple to use LED, produces a nice orange glow when connected directly to a 9V battery. No resistor needed as it already has it built into the LED. Orange lens. Works from 6VDC up to 14 VDC.

**G5613 4/$1.00**

### Bright Orange Jumbo T1 3/4 LED

Bright orange 5mm (T1 3/4) LED made by Stanley features a diffused orange colored lens. Lights up bright orange.

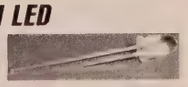
**G2148 7/$1.00**

### Kingbright® Bright Red Jumbo LED

Type L53IT-V is a see-thru red 5mm lens LED which lights up bright red. Long leads-prime LED!

**G1932 8 for $1.00**
**Factory bag of 1000 for $100.00**

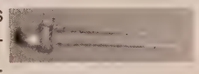
### HP Laserlike Brilliant Red LED



At 3VDC the output of this LED almost hurts your eyes. Great for when you need a real attention getter. Jumbo 5mm T1 3/4 water clear lens. Prime HP quality.

**G8757 5/$1.00 • 100/$22.00 • 1000/$195.00**

### Ultrabright Red LED with Lens



Ultrabright with clear pink lens that focuses the bright red output to produce a small spot. Case is slightly smaller than a T1 3/4 LED.

**G3318 5/$1.00**

### 2500 MCD Ultrabright Red LED

Crystal clear lens 5mm T1 3/4 LED light up a brilliant red beam. Factory prime LEDs with full length leads. Forward voltage 2.1V. Current 20ma. Min MCD 2000 - Maximum 3000 MCD (typical 2500). Viewing angle 26˚. Peak wavelength = 600nm.

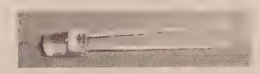
**G12704 89¢ ea.**
**10/$7.00 • 100/$55.00 • 1000/$450.00**

### Brilliant Green 5mm Agilent LED

Clear pale green lens T 1 3/4 (5mm) LED lights up a brilliant green color. Long lead units made by Agilent (part#QLMP-3915). These are on tape and reel.

**G12922 8/$1.00 • 100/$9.00**
**Factory Reel of 1300/$78.00**

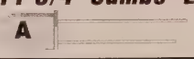
### Ultrabright Orange Red 4000MCD LED



Blinding output T1 3/4 Jumbo LED made by Stanley for an Outdoor electronic sign making OEM. These are prime brilliant LEDs that can be seen in daylight. Crystal clear lens, 5mm size, with full length leads. Viewing angle 25°. Forward voltage 2.1V. Prime.

**G12766 5/$2.00**
**Factory Bag of 1000 / $250.00**

### T1 3/4 Jumbo LEDs (5mm)




| Stock# | Color | Lens | Brightness | Fig. | Price |
|---|---|---|---|---|---|
| G1005 | Red | Diffused Red | Standard | A | 7/$1.00 • 100/$12.00 |
| G3297 | Red | Diffused Red | Standard | B | 12/$1.00 • 100/$7.00 |
| G5566 | Red | Clear | Superbright | A | 3/$1.00 • 100/$25.00 |
| G1016 | Red | See-Thru Red | Ultrabright | A | 5/$1.00 • 100/$18.00 |
| G1007 | Yellow | Diffused Yellow | Standard | A | 5/$1.00 • 100/$18.00 |
| G1006 | Green | Diffused Green | Standard | A | 5/$1.00 • 100/$18.00 |

### Ultrabright Jumbo Green LED

Crystal clear case 5mm jumbo LED lights up a bright green. Great for applications requiring a bright attention getting light. Long lead prime units.

**G9979 10/$1.00 • 100/$9.00 • 1000/$80.00**

### 2500MCD Bright Yellow T1 3/4 LED

Water clear T1 3/4 (5mm) case LED by Agilent Technologies lights a blinding yellow color. Brand new on tape and reel at a blowout price! Part # QLMA-DL86.

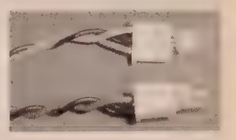
**G12860 2/$1.25 • 10/$6.00 • 100/$55.00**
**Factory Reel of 1300/$650.00**

### 3000 MCD Ultrabright White LED

Crystal clear lens 5mm T1 3/4 LED lights up with such a brilliant beam that you can't look directly at it. These are factory prime LEDs with full length leads. Current 20ma, forward voltage 3.2V to 4.3V, min MCD 2000 - maximum 3500 (typical 3000). Viewing angle 15˚. InGaN white color. As with almost all white LEDs, there is a slight bluish output.

**G12703 $2.49 ea.**
**10/$22.95 • 100/$200.00 • 1000/$1850.00**

### LEDs with Flexible Wire Leads



Perfect for customizing the mini scooters that are popular now. These consist of a bright LED and flexible twisted lead wires that have a female connector on the end (which can be removed). All LEDs are brand new, bright and have at least 13" long leads attached. Standard 5mm (T1 3/4) size LEDs.

**Bright Green G4627 5/$1.00**
**Red/Green (Bi-polar)* G4628 4/$1.00**
***has 3 leads**

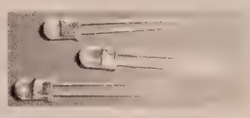
### Highly Visible 2 Element LEDs

Jumbo size (T1 3/4) LED contains two series connected LEDs in a see through case. By Toshiba and designed for bright visibilty and impact. We have 2 different colors each requires 5VDC for operation.

**G6801 Amber 4/$1.00**
**G6802 Yellow 5/$1.00**

### Ultrabright Jumbo T1 3/4 5mm LEDs all with clear lens

Prime factory LEDs in a rainbow of colors!



| Color | MCD | Voltage | Stock# | Price |
|---|---|---|---|---|
| Blue | 3000MCD | 3.2 to 4.3V | G12702 | $2.39 ea. |
| White | 3000MCD | 3.2 to 4.3V | G12703 | $2.49 ea. |
| Red | 2500MCD | 2.1 to 2.7V | G12704 | 89¢ ea. |
| Yellow | 3000MCD | 2.3 to 2.8V | G12768 | $2.00 ea. |
| Green | 3000MCD | 2.3 to 4.3V | G12769 | $2.29 ea. |

### Bright LED Keychain Light

Small 2 1/2" long push button keychain light features a bright LED and comes with 3 watch batteries for operation. Case is grey and has chrome plated keychain keyholder. Brand new in retail blister pack. Your choice of white or blue LED.

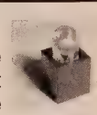
**G12776 White LED ~~$3.95~~ $3.25 ea.**
**G13077 Blue LED ~~$3.95~~ $3.25 ea.**

### Super Intense T1 LEDs Red and Green

Super intense LEDs with crystal clear lens. One lights up a brilliant green and the other lights up a brilliant red. Size is 3mm (T1). Brand new on tape and reel. You get 5 red and 5 green LEDs (10 total).

**G13657 $1.00**

### Super Brilliant 3 Color LEDs



These clear lens T1 3/4 3 lead right angle PC mount LEDs light up bright green, bright orange or if both internal LED chips are powered it lights up a bright yellow orange. This is one of the brightest and attractive LEDs we have seen. Made by LUMEX part #SSF-LXH169IGC. Prime!

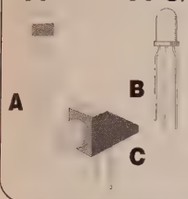
**G1445 4/$1.00**
**Factory bag of 500/$100.00**

### HP Brilliant Red Right Angle LED

Part# HLMP-3750 by Hewlett Packard is a clear case T1 3/4 (5mm) LED. Lights up a brilliant red from 2.5VDC. Made for right angle mounting on PC board.

**G12957 5/$1.00**
**Factory bag of 500/$90.00**

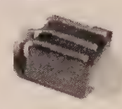
## T1 T1 3/4 Bipolar leds




| STOCK# | COLOR | LENS | BRIGHTNESS | FIG. | PRICE |
|---|---|---|---|---|---|
| G6159 | Red/Green-Yellow | Diffused White | Standard | A | 5/$1.00 • 100/$16.00 |
| G5310 | Green/Yellow | Diffused White | Bright | B | 4/$1.00 • 100/$22.00 |
| G2526 | Red/Green-Yellow | Diffused White | Standard | B | 3/$1.00 • 100/$28.00 |
| G7460 | Green | Diffused Green | Bright | C | 4/$1.00 • 100/$22.00 |

NOTE: The third color shown (-) is produced when both LED chips flash on at the same time.

## Bright Red & Green Bipolar LED



Super bright 3 lead rectangular Bipolar LED in black plastic holder. The leads on this LED have been bent over flush against the side of the holder so that the LED could be soldered flush to a PC board. You can bend them back if you wish. Prime and very bright! Frosted white lens.

**G8755 5/$1.00 • 100/$8.00 • 1000/$75.00**

## Jumbo Super Bright Bipolar LED

Everlight part# 1SRVGW/S150-1 features a jumbo T1 3/4 (5mm) diffused frosted lens. They are 3 lead units which can light up bright red or bright green. Prime long leads.

**G1122 5/$1.00 • Factory bag of 500/$80.00**

## World's Smallest? Orange Red SMD LED

ACTUAL SIZE:

This LED is barely larger than the head of a straight pin, yet it lights up a bright orange red color when 2.5VDC is applied. Made by Sharp (part# LT1D40A). Actual size is 2.0mm (L) x 1.25mm (W) x .75mm (H). Prime on tape and reel.

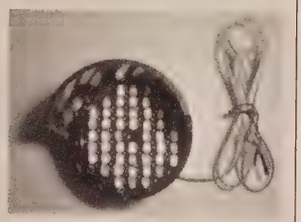
**G12919 10/$1.00 • 100/$8.00**
**1000/$75.00 • Full Reel of 4000/$250.00**

## Ultrabright 4 LED Vertical Display

Ultrabright display made by IDI features an alternating pattern of 2 red and 2 green T1 size LEDS mounted in a 13/16"H X 3/16"W black plastic holder. Has 8 pins on bottom for PC board mounting. Great for making attention getting attractive devices, fault indication, circuit status. Brand new prime. Part #5694F5.

**G9992 $1.00 ea • 10/$9.00**

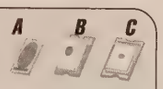
## Giant 50 LED Blinding Output Outdoor Cluster Display



Now you can attract attention outside even on the brightest day. Make traffic lights, stop signs, attention getters etc. The giant 50 LED cluster display type LT6750 by Sharp consists of 36 jumbo yellow green LEDs connected in series which produce an incredible 8.16 cd output at 19.0 volts and 14 jumbo red LEDs connected in series which produce and incredible 6.8 cd output at 13.2 volts. The LED cluster is mounted in a 2 1/16" Dia. black cylinder with built in sunshade. Features 3 lead (common, (-) red, - green). Viewing angle in the horizontal direction is ± 35 degrees and in the verticals direction ± 15 degrees. We have seen similar units advertised in surplus catalogs for about $20 and of course the factory sells our cluster display for a fortune. Brand new prime!

**G9987 $8.95 ea. • 3/$25.00 • 200/$1500.00**

## Bright SMD Chip LEDs




Tiny leadless SMD LEDs made by Dialight. Each produces a bright glow. Very tiny and packaged on tape and reel.

| Fig. | Color | Stock# | Price |
|---|---|---|---|
| A | Red | G9489 | 8/$1.00 •100/$10.00 |
| B | Green | G9490 | 10/$1.00 •100/$9.00 |
| C | Red | G9491 | 12/$1.00 •100/$7.00 |
| C | Green | G9492 | 12/$1.00 •100/$7.00 |

## Set of 3 Panel Mount LEDs

Add a professional looking touch to your project with these. Consists of one red, one green and one yellow bright panel mount LEDs with wire. These snap into a rectangular hole in your panel and feature an attractive black and white frame around the LED. Each LED has 2 1/2" long wires with female connector attached.

**G12956 Set of 3 $1.00**

L

## Super LED Assortment

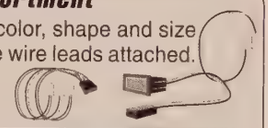
Assortment of all types, colors, sizes and shapes of prime high quality LEDS. Our largest and most spectacular assortment contains 250 pieces.

**G7436 $10.00**

YOU GET LEDS IN THESE COLORS:
- RED
- ORANGE
- YELLOW
- GREEN

250 PIECES!

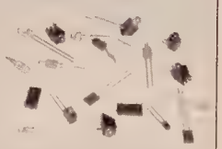
## Wire Lead LED Assortment



Assortment of various color, shape and size LEDs. Each has flexible wire leads attached. Very handy! All Prime.

**G9344 8/$2.00**

## Giant 100 Piece LED Assortment



Assortment of all types, colors, sizes and shapes of prime quality LEDs. You'll receive LEDs in these colors: red, orange, yellow and green. Stock up now and save!

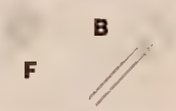
**G8063 $5.00**

## Mammoth 10mm 3 Color LED Package

Package of three 10mm diffused lens LEDs. You get 1 green, 1 yellow and 1 red. Each LED is similar except for the color. Great for making small traffic lights. Prime, long leads.

**G1602 $1.59/set**

## Rectangular LEDs




| Stock# | Color | Lens | Brightness | Fig. | Price |
|---|---|---|---|---|---|
| G7987 | Yellow | Diffused Yellow | Bright | B | 12/$1.00 • 100/$8.00 |
| G7985 | Green | Diffused Green | Bright | F | 10/$1.00 • 100/$8.00 |

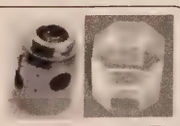
# Lenses & Prisms

## Super Prism Assortment

Assortment of 4 different glass prisms. Any one of them is worth more than our low price. May have edge chips.

**G9338 $5.00**

## Laser Prism Lens



We aren't sure exactly what this is but it consists of 2 28mm octagon shaped prisms glued face to face. We were told it splits certain laser beams. The housing is about 45mm (L) x 33mm (Dia.). It has several windows (holes) on the side and is threaded on one end. Sorry no other data or info available.

**Prisms mounted in metal holder**
**G9792 $8.00 ea.**

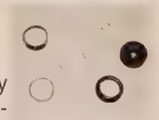
**Prisms glued together w/o the metal holder**
**G9794 $6.00 ea.**

## 72mm Double Convex Lens

Wow! This lens is spectacular. Perfect for applications that need light to be condensed or magnified. Made of quality glass for optical use, this lens is very powerful. These lenses are used, but most are in perfect condition! Don't miss the opportunity to purchase one of these lenses as they will quickly sell out. May have slight edge chips.

**G9789 $5.00 ea.**

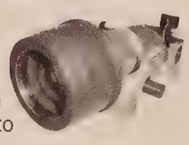
## Giant Microscope/ Optical Equipment Lens Assortment



Assortment of 8 high quality optical glass lens optics from a precision microscope manufacturer. Various size lenses-some in holders, some are not. Minimum size 7MM up to about 18MM. Most are perfect but a few might have a tiny edge chip. Any one of these lenses is worth several times the price of this assortment!

**G9751 $12.00**

## Giant Lens Assembly from MEMS Projector



This large assembly was the optical lens assembly from a very late model MEMS projector. Consists of large front adjustable lens and various input lenses for red, blue, and green plus mirrors etc. Sorry no electronics or MEMS unit. Very high quality metal case unit worth a fortune. Sorry no other info available. These appear to be brand new and they weigh in at about 11 lbs.

**G1565 $59.00 ea.**

### Precision Optical Lens

Very nice 2" AR coated double convex magnifying lens is highly polished first grade and comes in a plastic box. These were made for Teledyne Brown. Lens is about 1/2" thick.

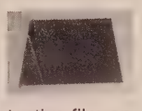
**G4372 $3.50 ea.**

### Large Condenser Lens

Large crystal clear magnifying lens is perfect for making solar furnaces or solar powered cigarette lighters, etc. Very high quality rectangular lens is 2.24" x 1.98" x .78". Focal length about 2.75". All edges are fire polished. Very nice piece!

**G9576 $2.00 ea. • 10/$18.00**

### Front Surface Mirror



Brand new trapezoid shaped front surface mirror is perfect for hundreds of laser applications. Size is approximately 2" X 1 19/32". These have a peel off protective film on front surface to protect the mirror and a peel and stick foam backing on back to mount the mirror.

**G1127 $1.49 ea.**

### Super Power Optical Glass Magnifier Lens (Small Type)

These are only 3/4" in diameter x 1/4" thick. They are still very powerful and can focus sunlight to a very small spot to instantly burn wood etc. Has ground edges, precision made.

**G8359 $3.75 ea.**

### High Tech Acrylic Dome

Clear acrylic dome with black base makes a great addition to a science project or robot. Overall diameter of plastic base is about 3 3/4" and the clear part of dome is about 2 5/8" dia x 1" high (in the center). Brand new crystal clear dome with opaque black base ring.

**G1600 $4.00 ea.**

### Large Screen TV Projection Lens

These are brand new projection lenses that were made surplus to us from one of the top large screen TV manufacturers. The overall size of the top optical part of the lens is about 3 1/2" Dia., however the plastic base holder assembly is over 5" in Dia. and about 2 1/2" high. Very good optical quality. Prime!

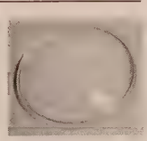
**G1596 $7.95 ea.**

### Magnifying Lens Double Convex

High quality double convex magnifying lens is perfect for hundreds of applications. Clear heavy duty plastic construction with 3/16" mounting edge and 1 5/8" overall diameter.

**G3227 $1.00 ea. • 10/$7.50 • 100/$69.00**

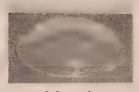
### High Quality Magnifying Lens



These 1 1/2" diameter plastic lenses were designed for use with an infrared sensing detection system. Very high quality individually wrapped. One side is very convex (outward curving) the other is just slightly convex. Precision made–brand new!

**G3068 $2.00 ea.**

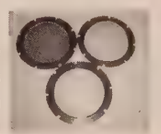
### Precision Clear Dome



Sparkling crystal clear dome is different than the other acrylic domes we sell because this one does not have a black base. You have a totally un-obstructed view. Great for all types of high tech robots or science projects. Overall diameter about 4 1/4". Height at center about 1". Brand New!

**G1622 $5.00 ea.**

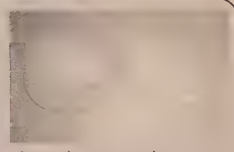
### High Tech Acrylic Domes



The smaller size of these domes have been very popular-now we have this larger size. These see-thru domes with black base make a great addition to a science project or robot. Overall diameter of plastic base is about 4 7/16" and the see-thru part of dome is about 3 1/4" dia x 1" high (at the center). Brand new!

**G1616 See-thru Red $4.75**
**G1617 See-thru Green $4.75**

### Giant Precision Glass Plano Convex Lens



Very high quality plano-convex lenses (PCX) have one flat and one outward cuvred face. They have a positive focal length and are used to magnify or condense light. These were made for Mitsubishi large screen projection TVs and they are absolutely flawless. Use for thousands of precision optical applications or just to magnify tiny objects. Brand new!

**Type 1 94mm Dia • Edge thickness 2mm**
**G1620 $8.00 ea.**

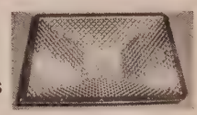
**Type 2 98mm Dia • Edge thickness 2mm**
**G16121 $9.00 ea.**

### Giant "Mirror Like" Reflector

Our largest reflector is perfect for use in high power strobelights, color organs, lamps, etc. Size is 6" L x 4 1/4" W x about 1" deep. Has 9/16" dia. hole in center. Brilliant mirror finish on plastic surface.

**G4386 $2.49 ea. • Pkg of 2 for $4.00**

### Giant "Dimple" Finish "Mirror Like" Reflector



Same size as one above but has a "dimpled" surface.

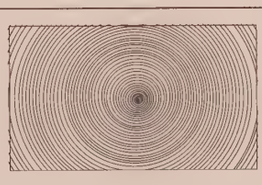
**G4387 $2.25 ea. • Pkg of 2 for $3.50**

### X-Ray Precision Lens with Dome

This giant magnifying lens features a 4 1/2" diameter housing and a focus/adjustment lock down wingnut. In addition, it has a clear acrylic dome on the top. The lens consists of several glass elements and is high quality. These are brand new, but we do not have any specs. The lens is labeled: "X-Ray Critical Part." Size about 4 1/2" Dia. x 4.9" Tall.

**G12914 $5.95 ea.**

### Giant Fresnel Lens (41" x 31")



These are some of the highest power giant Fresnel Lenses we have ever seen. They were made for a major brand large screen TV manufacturer and are new. Our supplier focused the sun's light onto a crucible and melted copper and gold metal within a few seconds indicating that the temperature produced was in the 2000°F range. We took one out to our parking lot and it melted the asphalt from the concentrated light spot. Be very careful with these when in the sun! Make powerful solar furnaces, sun energy concentrators, light beam lenses, etc. Very unusual and hard to find item!

**G1575 $79.95 ea.**

### Rare 3 Color Beam Splitter

Very unique item can combine red, green and blue lasers into "white" light for laser shows. Of course, if you put white light in, you get red, green and blue light out of the three other windows. Very precision made unit by Minolta. Contains an optically perfect color beam splitting prism and various other optical parts including lenses, rods, front surface mirrors, etc. The overall size is about 13 1/2" X 8 1/2". These must have cost in the thousand dollar plus range (we don't know). They look new, however they may have a few scratches on the metal case and may be used. Each comes in its own styrofoam packed box. Sorry, we do not have any data on its use. weighs about 9 lbs., so please include extra for shipping.

**G9488 ~~$100.00 ea.~~ Sale! $89.95 ea.**

### Optical prisms

| Fig. | Type | ≈ Overall Dimensions (mm) | Comments | Stock# | Price |
|---|---|---|---|---|---|
| A | IRG | 30 x 22 x 16 | - | G8143 | $5.00 ea. |
| B | IRG | 15 x 14 x 09 | - | G8139 | $4.50 ea. |
| C | IRG | 16 x 15 x 13 | - | G8144 | $4.50 ea. |
| D | DP | 27 x 09 x 08 | mounted on bracket | G8135 | $5.00 ea. |
| E | PP | 08(dia.) x 08 | - | G8137 | $4.50 ea. |
| F | PP | 08(dia.) x 08 | mounted on bracket | G8136 | $4.75 ea. |

Various high quality glass prisms. Some are standard right angle types that can be used in periscopes, some are "dove" prisms which rotates the image. Some are roof prisms used in spotting scopes, and some are for beam splitting lasers. All are precision made for optical or laser use. Some of these may have a slight edge chip or two, but this will normally not effect the performance.

**Legend:**
RAP = Right Angle Prism
IRG = Irregular Shape Prism
DP = Dove Prism
PP = Porro Prism

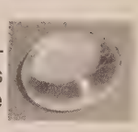
# Lenses, Mirrors & Prisms

### Magnifier Lens

Designed to snap into a panel, these crystal clear lenses are bout 8mm in diameter x 7mm (Front part that mounts on panel). The overall length is about 20mm. These cause a LEDs output to appear much larger or, we have been told that they can be used with fiber optics. Brand new–Blowout price!

**G9842 20/$1.00**

### Bausch & Lomb Large Condenser Lens

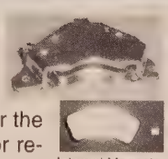


This lens concentrates light into a projected beam for use in projectors, spotlights, enlargers, IR systems, etc. The large 38mm lens is made of durable Pyrex® glass. Top quality and worth a lot more than our low price.

**G8384 $5.95 ea.**

# Magnets

### Rare Earth Neodymium Super Magnet



Internal Magnets

Brand new chrome plated super magnet is about 1.43" L x .55" W x .05" T. The magnet is mounted by glue to a metal bracket assembly that is about 2.39" x 1.14". We have found that if you place the bracket assembly on a cement floor and strike the back side of the bracket firmly with a hammer, the glue releases and the magnet can be slid off. Sometimes however the magnet may break (but the pieces are still very usable) and we assume no responsibility or replacement if this happens. The bracket also contains 1 tiny .11" x .13" super magnet that can easily hold a full size page of paper to a metal surface. The magnets are brand new high quality and the larger one can hold 15 to 20 lbs. We have 2 types:

**Bracket Assembly containing 1 large and 1 tiny supermagnet**
**G12861 $1.00**
**Bracket Assembly containing 2 large and 1 tiny supermagnet**
**G12862 $1.49**

### Small Powerful Super Magnet

Small but powerful super magnet is about 7/8" long x 13/32" wide and about 1/8" thick. The top surface has a dome shape and the bottom is flat. Has black epoxy coating. Brand new. Will hold a 1/8" thick stack of papers to a metal file cabinet.

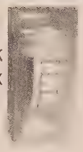
**G12782 $1.00 ea. • Card of 70 for $59.00**

***For Our Complete Selection of Magnets***
***Visit Us Online at: www.goldmine-elec.com***

See Page 14 for more Magnets

# Meters

### Edge View 0-10amp DC Panel Meter



Features clear case with white face and black marking. Made by Prime. Snaps into 1 1/4" x 9/16" rectangular hole in your panel. Brand new.

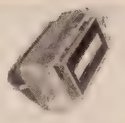
**G4516 $1.99 ea.**

### Smallest Full Function VOM

This is one of the smallest and neatest digital VOM meters we have ever seen. Unlike most small VOM meters, this meter even measures transistors and current (up to 10 amps). Ranges: DCV 200MV, 2000MV, 20V, 200V, 500V; ACV 200V, 500V; DCA 200uA, 2000uA, 20mA, 200mA, 10A; Resistance 200Ω, 2000Ω, 20KΩ, 200KΩ, 2000KΩ; Diode; Transistor hFE NPN/PNP. This tiny meter is only 3/516" L x 1 3/4" W and fits completely in your hand or pocket. Comes with flexible test leads and built in battery. Easy to read high contrast LCD display features large digits! Once you try this meter, you'll seldom use your full size meter again! Brand new in retail blister package. Hurry, we bought out the supplier's entire inventory of these quality meters and they won't be able to supply more of these for a long time. Black case.

**G12847 $9.95 ea.**

### Audio Level Meter



Small rectangular meter was made for indicating speaker overload. Features white arrow on a green background which changes to green/red at full scale. The entire movement rolls (as opposed to a needle indication). Size of face 1 13/16" x 5/8". Mounting ears are on 1 11/16" centers. Sensitivity 0-10 milliamps.

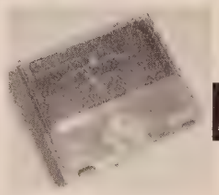
**G3301 $1.00 ea.**

### Compact Deluxe VOM with Data Hold and Backlight

This is our best VOM! It features a data hold button, a backlight button that lights up the display for a few seconds so you can take readings in the dark, a continuity sound position and a LFE (gain) test position for transistors. It can measure 0-600VDC in 5 ranges, 0-600VAC in 2 ranges, 0-2 Meg Ω resistance in 5 ranges, diode test and 0-10 amps in 5 ranges. This deluxe digital VOM is only 5 1/2" x 2 1/2" x 3/8" and is black in color. Includes a removable yellow insulated holder. Brand new in sealed retail blister package with built in battery and flexible color coded insulated test leads. This is one of the best small digital VOMs that we have ever offered!

**G12941 $16.95 ea.**

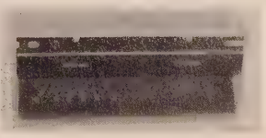
### FM Tuning Meter



Center scale type FM tuning meter features ±500 microamp full scale. Beautiful black face with blue & green scale. Designed with a hole in back that you can insert an LED (not included) to light up the meter (if desired). Overall size 2 1/8"W x 1 7/8"H. Brand new - nice quality.

**G12967 $4.95 ea.**

### Dual Meter

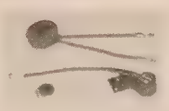


Black face panel meter with white lettering features 2 high quality meters in one! The plastic meter front is designed to protrude through a 1 1/4" x 4" rectangular hole in a panel. The meter itself is a sloping type with an overall size of about 4 1/4" x 2 1/8". It can be lighted if desired by using almost any LED in the hole provided. Range is 0-500ma for the signal meter and 0-250ua+/- on center scale tuning meter. The signal meter is a standard type marked 0-5 and the tuning is a center scale type with no numerals. Brand new–very high quality.

**G9786 $2.98 ea.**

# Microphones

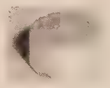
### Mini Electret Microphone Assortment



Great assortment of miniature electret microphones made for cellular phone manufacturer that stopped production. Contains 3 different microphones.

**G9445 $2.00**

### Primo General Purpose Sensitive Electret Microphone



Primo electret microphone made for non directional applications features 100-10,000Hz frequency response, 2V to 10VDC standard operating voltage. Size: 10mm (.39") Dia. x 5mm (.20") High. Metal case. Sensitivity -44dB@1kHz, S/N Ratio 60dB, Current 650µa max (Vcc=6V), Impedance 1KΩ (1kHz). Brand new prime. Primo # EM-100 (H).

**G12786 4/$1.00**
**Factory Box of 1000 / $180.00**

### High Quality Electret Microphone

High quality miniature microphone mounted in a stylish black 1 5/16" L x 15/16" W x 5/8" T case. The microphone has a 6ft long cable with a 3.5mm stereo jack (the microphone is mono so the first two sections of the plug are connected internally). Also features velcro peel-n-stick mounting square on back. There is only one screw (under the velcro) that holds the microphone case halves together- if you open the case and cut off the cord, you will have a miniature case that has ample room to mount projects such as a miniature FM microphone, hearing aid circuit, etc.- anything that makes use of the 3/8" dia. built-in sensitive microphone. Brand new–prime!

**G7229 $1.25 ea. • 10/$12.00 • 100/$100.00 • 1,000/$950.00**

### High Quality Ceramic Microphone

Make an electronic stethoscope or sensitive listening device with this high quality ceramic microphone. Metal case enclosed unit. Size about 1 3/16" Dia. x 3/16" thick. With 5" Long insulated leads.

**G5098 $2.00 ea.**

### Tiny Dynamic Microphone Element

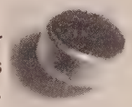
Tiny dynamic microphone element with chrome metal grille is only 13.5mm (dia) x 6mm (thick). Impedance is 300Ω.

**G4196 $1.00 ea. • 10/$8.00**

# Microphones



### Spy Mike



This is the tiniest electret condenser microphone we have ever seen. It is only 6 mm in diameter x 3 mm thick. Has dust screen and 2 tiny pins for PC board mounting. Operates on 1.5V up to 3VDC.

**G1841 2/$1.00 • 100/$45.00**

### Electret Microphone with Long Leads

Handy to use, small electret microphone features a shielded cable plus power lead (3 leads total). Flexible leads are about 7" long. Microphone is 3/8"L X 3/8" Dia. Metal case unit with a front surface dust shield.

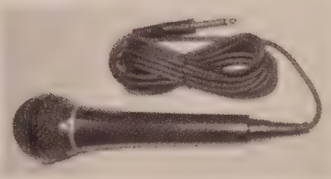
**G1098 $1.29 ea.**

### Ultra Mini Electret Microphone

Tiny electret microphone is very sensitive. These are brand new! Model U-63. Size only 6MM Dia. x 4MM tall. Has 2 solder pads on bottom.

**G9351 $1.00 ea. • 10/$6.00 • 100/50.00**

### Omniflex Uni-Directional Dynamic Microphone



Super dynamic microphone with long flexible cord and 1/4" mono plug features uni-directional response. Deluxe hand held black case microphone is about 8 1/2"long with 600 ohms impedance and -75±3dB sensitivity at 1KHZ. Great frequency response of 80-12kHZ. Has built in ON/OFF switch in handle. Brand new in retail blister package. Perfect for your next Karaoke party! Type OM88 made for St. Louis Music Inc. The wholesale price of these was $28.95.

**G9966 ~~$19.95~~ ea. Sale! $12.95 ea.**

### SMD Tiny Microphone

Made by Siemens, this tiny microphone is an ultrasensitive electret condenser omnidirectional microphone. It features 2 small terminals on bottom and a rubber boot. Size about 8mm (dia) x 5 mm (high). Frequency range 20Hz-16KHz, max operating voltage 10VDC, standard operating voltage 2VDC. Brand new–prime!

**G1820 2/$1.00 • 100/$38.00 • 1000/$350.00**

# Motors

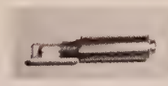
See Pages 4, 11, and 12 for Additional Motors

### Tiny Pager Motor

Tiny super efficient motor is great for making tiny solar powered robots. These are brand new motors made for the "vibrator" function in pagers. The body is only 9/16" long x 1/4" dia. Attached to the shaft is a "D" shaped weight, which you can insert into the center of a small plastic wheel, and you have a drive unit for a tiny robot that you can power from a hearing aid battery, a solar cell, etc. Many circuits for "solar engines" for robots exist on the internet that use this type of motor and typically these motors sell for $10.00 or more, when available.

**G9599 $2.49 ea.**

### Micro Pager Motor



Made by Nakimi, this micro size pager motor was designed to provide the vibrate function on miniature pagers. Its size is only 4mm (.16") Dia. x 12.5mm (.49") long (excluding shaft and weight). Has 2 tiny terminals for hookup and is mounted in a slip-off rubber shock sleeve. Operates from 1VDC up to 5VDC. Motor resistance is about 11Ω. Great for thousands of micro projects, robots, etc. Brand new.

**G12809 $1.79 ea. • 10/$15.00• 100/$110.00**

### Micro Pager Vibrator

These are used in many sophisticated pagers to provide the "silent" vibrating function. Consists of a tiny 14mm (dia.) by 3.4mm (thick) disk that contains an internal motor. There is no external shaft so its use is only to vibrate when 3VDC is applied. Requires about 45ma of current. Very unique–can be used to make micro robots that scoot from the vibration. Has 2 tiny solder pads for connection.

**G2124 $2.00 ea.**

### Mabuchi FF-N20PN Miniature Motor

High torque, high RPM motor operates from 1.5VDC up to 3VDC. Speed at no load is 15800 RPM. Current at no load is .096amp. At maximum efficiency RPM=12200, current is .33amp and torque is 2.8g.cm. Stall torque is 13g.cm - Stall current 1.15amp. Weight about 5 grams. Size only 15mm (L) x 12mm (W). With 4mm (L) x 1mm (dia) shaft. Has solder eyelets. This powerful motor is perfect for making miniature robots. Picture is the approximate actual size of this incredible motor.

**G2110 $1.00 ea. • 2/$1.89 • 100/$80.00**

### Small but Powerful DC Johnson Motor

Type 373045 Johnson motor operates from 3VDC up to 24VDC and is very efficient. Features 2 solder terminals for connection, a body size of 1 5/8" (L) x 1 1/16" (Dia.) plus a 7/16" (L) x .09" Dia. shaft. Shaft has several etched lines along its length to help secure a gear or pulley etc. Very good quality motor for robotics!

**G4032 $1.25 ea. • 10 for $10.00**
**100 for $85.00 • 1000 for $680.00**

### Mabuchi Heavy Duty 12VDC Motor

Make powerful robots, drive assemblies, fans, etc. with this large heavy duty motor. Size is 2 1/4" L x 1 3/8" dia with 1/2 "L x 1/8" dia "D" shaft. Has 4" long flexible color coded leads with standard female 2 pin header socket. Made by Mabuchi- model #RS-540SH. Will work from voltages in the 3 VDC up to 24 VDC range.

**G9215 $2.98 ea. • 2/$5.00**
**10/$22.00 • 100/$180.00**

### Small DC Motor with Worm Gear

These are type FF-180PH Mabuchi motors with a plastic worm gear. Size of motor 1 1/4" L x 13/16" x 9/16". Operates from 1.5VDC up to 12VDC. Great for hundreds of applications including robotics. Worm gear is 3/8" L x 5/16 dia. Has solder terminals.

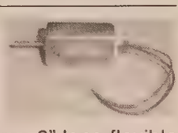
**G9556 w/o Gear Brace $1.49 ea.**
**G9558 with Gear Brace $1.59 ea.**

### Solar Motor

Highly efficient motor made by Hankscraft requires very little current to operate and although rated for 3 VDC, it operates perfectly at 1/2 volt (solar cell output). Make solar powered displays, gadgets, etc. Has flexible color coded insulated leads and small white plastic gear (removable) on shaft. Overall diameter of motor is about 1 5/16". Shaft is 3/8"L x 0.06" Dia. (1.5mm dia.).

**G4453 $2.75 ea.**

### NISSEI DC motor



Small motor operates from 3VDC up to 18VDC and features a 1 7/16" L body X 3/4"W. Has 9/16"L shaft that is 1/16" Dia. Motor features 3" long flexible color coded leads with 2 slot female connector. Part # 7E27 by NISSEI of Japan.

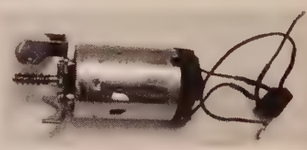
**G9931 $1.00 ea.**

### Robot Builders Bonanza! Motors and Wheels

Here's a retail blister card which contains 4 rubber tires, 4 chrome wheels, 1 small DC motor, 4 screws and 4 spacers. This is a robot builders dream come true. The small, high RPM motor can operate from 1.5VDC up to 6VDC and with a little imagination you should be able to use these parts as the basic building block for a robot. Originally, they were designed as a "tune up" parts set for small toy race cars. Brand new in blister pack. Sorry, no robot plans to use these available.

**G9816 $1.75/Set**

### Large Geared Motor



Looks like this could be used in robot applications or anywhere a high torque forward motion is needed. Consists of a 3 1/2" L x 1 3/8" Dia. motor that has a bridge rectifier attached to its power input leads. The bridge allows for operation from 12V up to 120V **AC** or **DC**. The shaft of the motor is a worm gear connected to a rotating 3/4" Dia. white plastic gear. The arrangement provides a tremendous forward movement. However, the motor shaft itself cannot be reversed, because the worm gear only operates in one direction (that's why the bridge rectifier is attached). Brand new!

**G9485 $3.95 ea.**

### Small Efficient Motor & Fan Blade

Works perfectly with a small solar panel this motor features solder tinned connection posts and small 2" overall dia. push on fan blade.

**G1495 $2.75**

### Heavy Duty 12VDC Motor with Regulator

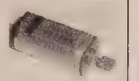
Precision 1 7/16" Dia. motor has a three transistor regulator board attached.We don't have the hookup diagram, but they look like sophisticated electronic regulator boards. Size of board: 1 1/2" x 2 1/8". Size of motor: 1 7/16" Dia. x 1 7/8" L. The shaft is a "D" type and 1/2" long. Brand new-no other info available except that these were made by Sonar Radio Corp. Part# 27-030-008.

**G6540 $1.50 ea.**

### Small DC Robot Motors

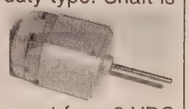
We have 3 different motors that are perfect for driving small robots:

**TYPE 1**: Very high speed operates from 1/2 volt up to 6VDC. Has small gear on shaft. Size of motor 1 1/4"L x (5/8" x 1/2" oval).



**G9330 $1.25 ea.**

**TYPE 2:** Extra long shaft heavier duty type. Shaft is 3/4" long about 1/16" dia. Motor requires that bare wire (24 ga) leads (you provide) are inserted into socket type connectors on motor to bring in the power to run it. Works great from 3 VDC up to 12 VDC. Size about 1 1/4" L x (15/16" x 11/16" oval).



**G9331 $1.25 ea.**

**TYPE 3:** Heavy duty compact design motor by Johnson for large Robots. Motor has 1/2" long 1/16" dia shaft and solder terminals for power hookup. Runs on 6VDC up to 24 VDC. Size about 1 1/2" L x 1 1/16" dia.

**G9332 $1.49 ea.**

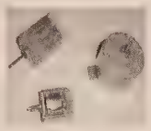
### High RPM Johnson Small DC Motor

Small motor operates from 1.5VDC up to 9VDC and features a 2mm (dia) x 7mm (L) shaft. Size of body is 30mm (L) x 24mm (W). Has 2 solder terminals for connection.

**G4046 $1.00ea. • 100/$80.00 • 1000/$700.00**

### Small DC Motor Assortment

Assortment containing different small DC motors. Handy for selecting the right motor for a small robot or motorized project. All new and prime, one may have gear attached. Picture is for illustration only -styles may vary.



**G6622 $2.00**

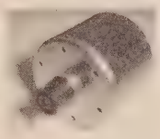
### Heavy Duty Gearhead Motor with Drive Train

This assembly consists of a heavy duty gearhead motor that is attached to an additional gear assembly with a 13" long shaft which rotates. The torque is incredible and each end of the 1/4" shaft has a gear that can be removed. The motor is rated for 24VDC, however it works perfectly on voltages as low as 9VDC. Comes with a controller card which can be unplugged. We have no schematics or data on how to hook the card up, however as long as you apply voltage to the red and blue motor power leads the shaft will rotate!

**G9809 $19.95 ea.**

### 12VDC Motor with Pulley

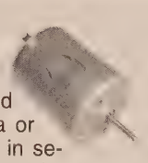
Made for a VCR tape rewinder; this motor features operation from 12VDC and has a 10mm dia. pulley attached to shaft. Motor is 35mm dia. x 29mm(L) with solder eyelets. Brand new.



**G2111 $1.29 ea. • 2 for $2.00**

### Super Power Solar Motor

This efficient motor by Mabuchi is perfect for small solar racers, air boats, fans, etc. It runs very fast and at a good torque from three 400ma or higher output solar cells connected in series. Use this motor to build your own solar racer using our polycrystalline solar cells (see page 3) and pulleys with rubber bands or a gear drive. Size of motor body is approximately 1 1/4" Long x 15/16" Diameter. Shaft is 7/16" Long x 0.8" Dia. (11mm L x 2mm Dia.).



**G4569 $2.49 ea.**

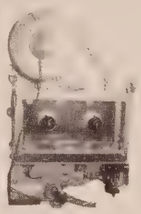
### Mini Cassette Assembly

Precision made mini cassette assembly is the perfect Robot builder's source for various small gears, springs, pulleys, drive belts and even a small efficient super quiet 1.5V to 7VDC motor (Dia=1"). Overall approximate size of the assembly is 2 1/4" x 2 1/2" x 7/8". Brand new–no data and no electronics.

**G4586 $2.98 ea.**

### Precision Micro Cassette Drive

These brand new assemblies contain various nylon gears, metal pulleys and 2 motors. The large one is 1 3/16" dia. x 5/16" thick and has a speed sensor mounted on top. The other motor is a tiny 7/16" dia. x 9/16" L that has a "worm" gear attached. These are very precision units, not like the usual audio decks we see. These are brand new individually bubble wrapped. There are no electronic components with this except for the tape head and 2 motors. Sorry, no info available. These look like a Goldmine bonanza for builders of small robots. Size about 3 1/2" x 2 1/4" x 3/4".



**G2091 $3.98 ea.**

### Large 2 Deck Cassette Tape Mechanism

Contains a wealth of gears, springs, wheels, pulleys, rubber belts, mechanical levers, tape heads and a motor. Overall size about 10"L x 3 1/2"W. Sold "as is" without any of the electronic circuit boards that were part of the complete unit.

**G12965 $2.98 ea.**

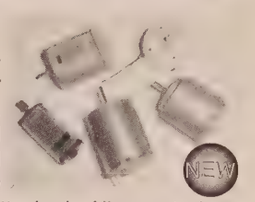
### AC/DC Heavy Duty Motor 12V up to 120V

High speed, high torque AC/DC motor has a built in bridge rectifier to allow shaft to rotate in only one direction. Features a speed of 11,444 RPM at 120V (no load) and a speed of 5232 RPM fully loaded at 120V. Can operate from 12VAC or 12VDC up to 120VAC or 120VDC. Size of motor about 2 5/8" x 1 3/8". Features a 9/16" L x 1/8" Dia. slotted shaft. Great for robotic applications where a larger power motor is needed. Made by EF Johnson. Brand new - prime!

**G1097 $3.95 ea.**

### Bag of Motors

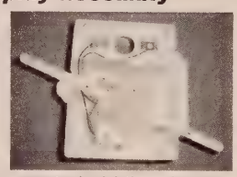
Bag of 5 different small motors to allow you to power various robot projects. Fabulous deal as we sell some of these for several dollars each. All are new – some may have gears attached. All operate from 12VDC or less. May vary from picture shown.




**G13678 $3.50**

### Hankscraft Store Display Assembly

Unique assembly was made to wave two cardboard advertising signs back and forth for use in retail stores. The assembly is about 4 3/4" L x 4 5/8" W x 1 7/8" Deep. It comes with the accessory arms to hold the signs, a very efficient internal motor with special gear arrangement and a built-in holder for 1 "D" battery (not included). The display was so efficient that it was designed to be left on night and day for extended periods of time! These are brand-new and worth the price just for the nice set of gears (use in robotics, displays, etc.). In factory box, with instructions.



**G4480 $5.00 ea.**

### 12VDC Heavy Duty Robot Motor

Has a 1 1/2"L x 1 1/8" Dia.body, and a 1/2"L x 3/32" Dia.shaft.

**G7851 $1.00 ea.**

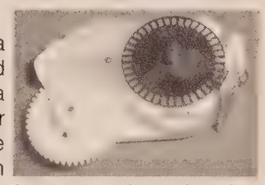
### Small 12VDC Motor for Car Windows

Small motor with 3/4" diameter metal gear was designed to go into an electric window assembly. Motor is about 1 1/4"L x 1" x 3/4". Motor requires that bare wire 24 gauge leads (you provide) are inserted into socket type connectors on motor to bring in the power to run it. Motor will work fine on voltages as low as 3VDC.

**G12934 $1.29 ea.**

### Precision Miniature Motor with Gears and Tach Disk

These were made for a CD drive and are brand new. They consist of a small 1" diameter motor and three gears, one with a black plastic tach disk. The disk has slots that operate in conjunction with a tiny opto interrupter that was to provide speed info to the CD control circuitry. This motor will operate from 1.5VDC up to 12VDC. Sorry, no other specs or info. Because of the way that the final gear is below the rest of the assembly, it makes this useful as a direct drive wheel for making a small robot. Has 2 mounting holes. Size about 2.2"L x .7" thick x 1.1" high (excluding final gear which extends .38" below).

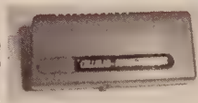


**G12770 $4.95 ea. • 2 for $8.00**

## Phones and Phone Accessories

### Cellular Vibrating Silent Ring Alert

Mini pager like device lets you turn off the ringer on your cell phone and still know when your cell phone is ringing. Now as long as your cell phone is within 3 ft of this pager, the pager will vibrate to alert you when there is an incoming call. Requires no wires and works off the "harmonics" produced by almost all cell phones when a call comes in. These are brand new in a retail blister package. Requires 1 "AAA" battery (not included).



**G1146 $9.95 ea.**

With Caller ID service available from many phone companies for a low monthly fee, this is the perfect time to enjoy the benefits of this service which allows you to know who is calling before you pick up the phone. Even if you already have a caller ID unit, you can add additional units for other extensions in your house for added convenience. With our giveaway prices, you'll want a Caller ID unit for every phone in your house.

**The units we have are used and are being sold at two different prices and conditions:**

1. Tested Perfect Condition: These are like-new units that customers returned after a free trial period or after the customer cancelled their Caller ID service.
2. Well used and sold "as is" only. These may or may not work–they are untested and typically have scratched or smudged cases. Many will probably work.

**All of the units are very simple to use:**

1. Ask your phone company to start caller ID service
2. Install the required battery
3. Insert a modular cord (available from us or provide your own) from the wall jack to the unit.
4. Plug your phone into the jack on the Caller ID unit and you are in business.

**Please note that the labels/brands shown in pictures will vary as the same company produced the same product under various brand names.**

### "As is" Cordless 25 Channel Telephone with Caller ID

This was a very high tech cordless phone made by Pacific Bell. It automatically selects the clearest channel. It has a compander to reduce noise and static, it indicates new calls and voice mail. It stores up to 50 names and numbers on the built in LCD display for caller ID plus it has speed dial and auto call back of any stored number. The base unit even has a paging button for the phone. The only problem is that these are as is units and when they were sent back, the service center removed - 1) the battery from the handset (you can buy a replacement from RS) 2) the screw in antenna on the handset only - the base unit still has an antenna, and 3) the 9V 150ma adapter. We do not test them and we do not have any instructions for use so we are selling them "as is" only - they may or may not work if you screw in an antenna add a battery and connect up an adapter to the base unit. Please no returns.

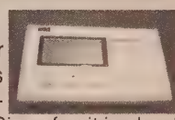
**G1425 Black Sale! $5.95 ea. G1426 White Sale! $5.95 ea.**

### Model 350 Caller ID

Handy Caller ID unit features large LCD display which shows the name and number of up to 72 callers. These handy units feature a tilt-up bar for desktop mounting, a contrast control, a button to scroll through the list of callers in the unit's memory and a delete button. Operates on one 9V battery (not included). These units are used and sold in the conditions shown. Size: about 6" x 4 1/4" x 1 1/4". Note: Caller ID service from your local phone company is needed with all Caller ID units–check with your phone company for availability and monthly charges.

**G9615 Tested Perfect Condition Unit $3.95 ea.**
**G9616 "As Is" Untested $2.25 ea.**
**G9680 Modular Cord $1.00 ea.**

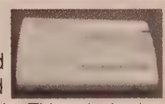
### Attractive 3 Button Caller ID



Holds up to 94 calls. Shows name, phone #, time and date for all calls (unless blocked or outside of Caller ID area). This has the additional red call alert light and selectable English or Spanish language. Operates from one 9V battery (not included). Size of unit is about 6" Wide x 3-1/2" Deep x 2" Tall and is made for desk or table use. Used.

**G9687 Tested Perfect Condition $5.00 ea.**
**G9688 "As Is" Untested $3.95 ea.**
**G9680 Modular Wall Cord $1.00 ea.**

### Compact Model Caller ID



After a couple of rings of your telephone this unit will display the name and number of your caller. Stores the 60 most recent names and numbers, and features a red flashing indicator lamp to alert you that a new call has come in. This unit also has a scroll button for longer names and repeat call indication. Operates on 4 AAA batteries (not included). Size: 4 7/8" x 2 3/4" x 1 1/4". Used.

**G9690 Tested Perfect Condition $5.95 ea.**
**G9691 "As Is" Condition $2.95 ea.**
**G9680 Modular Wall Cord $1.00 ea.**

### Phone / Stereo Silencer ™

This amazing device connects up to your phone jack and your stereo to automatically reduce the volume by 20db or 30 db (your choice) whenever the phone is picked up. One unit is all that is needed to cover the phones in the house (cordless also). As soon as you finish your call and hang up the volume is automatically restored to its original level. The silencer consists of a small box with a telephone cable to plug into any modular telephone jack, an adapter for the telephone jack (so that both the silencer and a telephone can be connected to one jack if desired), 2 sets of gold plated RCA plug patch cables. No batteries are required, simply plug the audio cables between your CD player, tuner, preamp etc. and your amplifier so that the silencer can mute the audio source selected. New in retail box with complete, easy to understand instructions.

**G1983 ~~$5.95~~ SALE! $2.49 ea.**

## Piezos

### Murata Upright Piezo

This 1" high black plastic holder houses a .8" diameter piezo element. It has 2 PC board terminals and an open back. This can be driven by various IC or transistor circuits and we include a simple transistor drive schematic with this. Brand new.

**G13128 $1.00 ea.**

### Large Piezo Element

Large blue plastic case piezo element made by Kyocera part # KBT-44SB-1A. These can produce a tremendously loud sound when driven by external circuitry. Size about 1 11/16" Dia. (excluding mounting ears) x 9/16" High. Has flexible wire leads.

**G9985 $1.00 ea. • 10/$9.00 • 100/$80.00**

### Mini Piezo Disc

Tiny 3/4" diameter Piezo disc element. Murata 7BB-18R2-1.

**G2602 2/$1.00 • 10/$4.00**

### 3 Lead Piezo Disk

Murata 7SB-34R7 high output self-driven (with feedback electrode) piezo disk requires only 1 transistor to drive it. Resonant frequency is 3.1 KHZ, resonant resistance is ≥ 160, capacitance is 24000pf. size is 34.7mm. These are brand new and perfect for making a clear penetrating loud alarm sound. They create no electronic noise and require 1/10 the power of a comparable electromechanical buzzer. We even include a simple 1 transistor schematic that shows how to use 1 2N3904 transistor and several resistors and several capacitors to drive this piezo. Brand new prime!

**G9303 2/$1.00 • 100/$40.00**
**Mfg Box of 800 / $250.00**

### World's Smallest Piezo

One of the tiniest piezo elements in a case that we have ever seen. Only 17/32" in diameter by 1/4" high. Prime unit, marked SHR-175. Operates from any transistor or oscillator IC circuit.

**G6859 $1.25 ea.**

### Precision Made Piezo Element in Holder

Made by TDK for Motorola these 2 lead Piezos feature 2 metal bands for hookup and a .85" dia. plastic case which is .125" thick. Top surface has a peel & stick surface. Brand new in sealed bag.

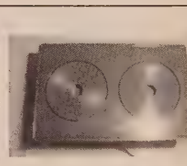
**G2237 $1.00 ea.**

### Loud Pulsating Electronic Alert

Piezo alert horn type EAI-435 by Projects Unlimited will work from 3vdc up to 16VDC and provides a loud "attention getting" pulsating tone. The higher the voltage the louder the tone! Completely self contained with internal drive circuitry and color coded power input wires. Size excluding mounting ears 1.65" dia. x .63" thick.

**G2095 $2.49 ea.**

### Pulsating Electronic Siren Sound Blaster



One of the loudest Piezo type self contained sound blasting sirens we have heard. These are type BPS8432L-12-C by Intervox. They operate from 6VDC up to 15VDC and produce a 2.5 - 2.8KHZ alternating electronic siren with an incredible 105dB sound pressure at 1 meter. Size is about 84mm(L) x 55mm(W) x 32mm(D) plus 1 mounting tab. Black plastic case contains 2 large piezo elements and built in electronic siren circuit. Simply connect red lead to (+) and black to (-). Can be connected to our PIR unit (G4567) to sound off for a couple of seconds when an intruder enters a protected area. Brand new!

**G1148 $3.75 ea.**

### Motorized 20k Potentiometer

Precision made motorized pot by Shokai features a very compact gear reduction assembly with mabuchi motor. The pot has a panel mount bushing with nut and has a long slotted shaft for a knob (if desired). Pot can be manually turned with shaft or automatically turned by applying any voltage from 3 to 12VDC to the motor. Reverse the polarity to cause the pot to turn in the opposite direction. This precision marvel is great for robotics, servo systems, remote control instrumentation, laboratory equipment, etc. Pot has 3 wires connected to it. Motor has 2 wires connected to it. Size about 1 1/2" X 1 1/2". Linear taper 20K rating. Brand new!

**G9962 $3.49 ea. • 10/$29.95**
**100/$265.00**

### Dual Pots

All with standard 3/8" bushing for panel mount nut and 1/4" dia shaft for knob. Pot may vary from photo.

| Value | Stock# |
|---|---|
| 4K/25K | G7049 |
| 50K/50K | G5196 |
| 200K/200K | G5955 |
| 300K/300K | G5956 |
| 3M/3M | G5958 |
| 4M/4M | G5959 |
| 5M/5M | G5960 |

Your Choice $1.00

### ALPS 50K Pot with Push Switch

Unique pot made by Alps is very compact and has a very precise action. As the 3/16" slotted shaft slowly rotated a clicking sound for each minute position is heard and felt. To operate the momentary switch just push in on the shaft. With panel mounting nut. Size: 3/8" x 7/16" x 1/2".

**G6830 $1.00 ea.**

### Standard Size Pots

All with 3/8" bushing and standard 1/4" dia shaft for knob. All come with panel mount. Some with switch. Picture is for illustration only and pots may vary from one shown.

| Value | Stock # | |
|---|---|---|
| 3.5K | G6831 | $1.00 ea. |
| 30K+ | G5933 | $1.00 ea. |
| 250K+ | G6721 | $1.00 ea. |

+ With switch

### High Quality Bourns 300K Potentiometer

Standard 3/8" panel mount bushing potentiometer features 1/4" diameter x 1/2" long shaft to mount your knob. These are compact in size at only 0.5" square. High quality linear taper with solder eyelets and nut for panel mounting. Bourns part # 53AAAB28B40.

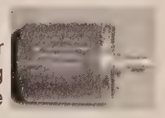
**G12897 2/$1.00 • 100/$35.00**
**1000/$299.00**

### Mini Dual 20K Pot

Panel mount mini pot features 1/4" D shaft which is 1/2" long for knob. Taper is audio, complete with panel nut for mounting in a .28" hole in panel. Overall body size about 5/8" x 3/4".

**G4130 3/$1.00 • 100/$29.00**
**1000/$270.00**

### 500Ω Precision Multiturn



Precision 10 turn potentiometer made by Duncan. Has panel mtg bushing and nut. Brand new prime worth over $25.

**G5126 $3.75 ea.**

### Screwdriver Adjust Pots

Standard 3/8" bushing pots with 1/4" dia screwdriver adjust shafts. Pots may vary from illustration.

| Value | Stock | Price |
|---|---|---|
| 50Ω | G6724 | 2/$1.00 |
| 750Ω | G5231 | 2/$1.00 |
| 1K | G5965 | 2/$1.00 |

### Super Pot Assortment

20 potentiometers of various styles and sizes. Screw driver adjust, duals, long shafts, etc. No hardware.

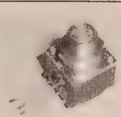
**G5270 $5.00**

### Power Rheostats

Power rheostats for numerous applications. All are panel mount with bushing and nut. Each has a 1/4" diameter shaft. We have the following wirewound type available.

| Stock# | Value | Size(Dia.) | Watts | Price |
|---|---|---|---|---|
| G5096 | 250Ω | 1 1/2" | 25 | $6.00 |

### 10K AB Mod Pot®



High quality Allen Bradley Mod Pot® with standard panel mount 3/8" bushing and panel mount nut. Features screwdriver, adjust shaft and gold plated pins for hookup. AB part # 70MIN024S.

**Model 70MIN024S103U (10K)**
**G1544 $1.00 ea.**

P

## Potentiometers and Trimmer Resistors

### Trimmer Resistors

| Stock # | Value | Fig. | Orientation | Price |
|---|---|---|---|---|
| G5249 | 500Ω | G | Horizontal | 6/$1.00 |
| G5245 | 1K | D | Horizontal | 6/$1.00 |
| G926 | 1K | D | Horizontal | 5/$1.00 |
| G5258 | 2K | D | Horizontal | 6/$1.00 |
| G6273 | 5K | C | Horizontal | 8/$1.00 |
| G6738 | 5K | I | Horizontal | 10/$1.00 |
| G5236 | 10K | G | Horizontal | 10/$1.00 |
| G6751 | 10K | J | Vertical | 4/$1.00 |
| G5995 | 20K | A | Vertical | 5/$1.00 |
| G5251 | 50K | E | Horizontal | 6/$1.00 |
| G5993 | 1Meg | B | Vertical | 5/$1.00 |
| G5239 | 2Meg | F | Horizontal | 5/$1.00 |
| G5994 | 3Meg | B | Vertical | 5/$1.00 |

### 500K SMD Trimmer Resistor

Tiny SMD trimmer resistor is precision made with a ceramic base. Linear taper 3 lead type with top adjustment slot. Size only .15" L x .18" W x .06" H. Prime.

**G12907 5/$1.00 • 100/$15.00**
**1000/$120.00**

### Horizontal Mount Compact Trimmer Pots

Compact single turn ceramic base trimmer resistors features plastic turn knob and horizontal PC mounting. All are linear taper. Approx size 11mm(L) x 9.0mm(W). Lead spacing is 5mm between 2 leads and 10mm to center lead.

| | | | | |
|---|---|---|---|---|
| G1801 | 500Ω | 4/$1.00 • | 100/$15.00 • | 1000/$100.00 |
| G1802 | 1KΩ | 4/$1.00 • | 100/$15.00 • | 1000/$100.00 |
| G1803 | 5KΩ | 4/$1.00 • | 100/$15.00 • | 1000/$100.00 |
| G1804 | 75KΩ | 4/$1.00 • | 100/$15.00 • | 1000/$100.00 |

### SMD Micro Size Trimmer Resistors

Ceramic base micro size SMD type adjustable trimmer resistors are only .17" x .15". Prime linear taper units. Available in 3 values.

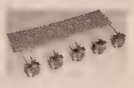
| | | |
|---|---|---|
| 10K | G2028 | 10/$2.00 |
| 50K | G2029 | 10/$2.00 |
| 500K | G2030 | 10/$2.00 |

### 1K Trimmer Pot Blowout

1K horizontal PC mount 7mm (dia) trimmer resistors. These are supplied on cut lengths of tape and reel and are prime in every detail. Linear taper with handy slotted knob for precise adjustment. Blowout price.

**G1928 10 for $1.00 • 100 for $8.00**
**1000 for $65.00 • 10,000 for $500.00**

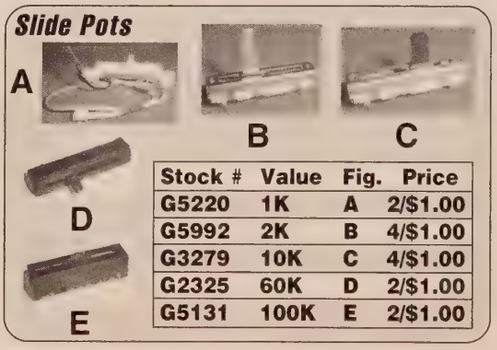
### Horizontal Mount 470Ω Mini Trimmer



These compact 3 lead horizontal trimmer resistors feature a small adjuster wheel on top. Size of body only 1/4" square. These are on tape and reel.

**G9226 10/$1.00 • Full mfg box of 1000/ $75.00**

### Slide Pots




| Stock # | Value | Fig. | Price |
|---|---|---|---|
| G5220 | 1K | A | 2/$1.00 |
| G5992 | 2K | B | 4/$1.00 |
| G3279 | 10K | C | 4/$1.00 |
| G2325 | 60K | D | 2/$1.00 |
| G5131 | 100K | E | 2/$1.00 |

# Potentiometers and Trimmer Resistors

ELECTRONIC GOLDMINE

### Small Trimmer Resistors Horizontal Type

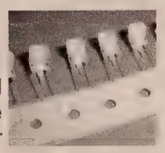
Horizontal mount 3/8" Dia. Small trimmer resistors made by PIHER. These all have a slot for adjustment.

| Value | Stock# | Price |
|---|---|---|
| 100Ω | G9036 | 5/$1.00 • 100/$16.00 |
| 500K | 69038 | 5/$1.00 • 100/$16.00 |
| 5 MEG | G9039 | 5/$1.00 • 100/$16.00 |

### Small Trimmer Resistors Vertical Type

| Value | Stock# | Price |
|---|---|---|
| 1K | G9040 | 5/$1.00 • 100/$16.00 |
| 4.7K | G9042 | 5/$1.00 • 100/$16.00 |
| 10K | G9041 | 5/$1.00 • 100/$16.00 |

### Vertical Mount Mini 10K Trimmer Resistors



These are small 10K 3 lead vertical mount trimmer resistors. They feature a lead spacing between their outer leads of 3/16" and have a smooth action white control knob. They are on tape and reel. Prime!

**G8668 10/$1.00 • 100/$9.00 • 1000/$80.00**

### Mini 200K Trimmer Pot

Single turn horizontal trimmer resistor features a 1/4" diameter blue adjustment knob and standard .20" lead spacing on the outer leads. Ceramic base with plastic knob.

**G4049 4/$1.00 • 100 / $22.00**
**1000 / $195.00**

### Multi Turn Trimmers with Indicators

Precision multi turn trimpots with special plastic indicator which moves as the shaft is turned. Features handy ridged grip shaft to allow for hand adjustment or you may use a standard screwdriver to adjust.

**G983 25K Linear Taper 4/$1.00**

### 100K Mini Trimpot

Nicely made 100K horizontal mount linear trimpot features a slot on top for adjustment. Size about 1/4" Dia. Has 3 legs for PC board mounting.

**G1418 10/$1.00 • 100/$8.00**
**1000/$50.00 • 10,000/$400.00**

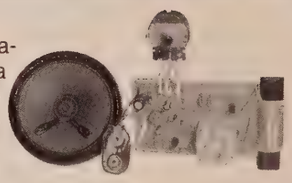
## Radios

### RCA Digital AM/FM Stereo Cassete Player

These are 100% good customer returns. We test each one to make sure it works. Features digital tuning AM/FM stereo plus stereo cassette player. Has LCD display, memory presets, digital tuning and high quality sound from comfortable headphones. Operates on 2 AA batteries (not included). May have slight scratches on case. Size about 4 5/8" x 3 1/2" x 1 5/8". Grey, black and silver colored case.

**G2261 $7.00 ea. • 2 for $14.00**

### 1 IC Speaker AM Radio Kit



This radio kit operates from a sophisticated radio IC and has a powerful antenna coil with a high grade ferrite core. Volume control, two transistor audio amp with power transistor. Operates on 9V battery (not included). Skill level 1.

**C6749 $15.55 ea.**

### Classic Portable AM Radio

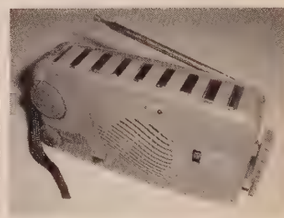
These will remind you of the heydays of the 60's when everyone had their portable transistor radio with them! Operates from 2AA batteries (not included) and features a superhet circuit with built in full volume speaker, tuning control, volume control, 2.5mm earphone jack (earphone not included) and carrying strap. These are brand new! Styles, color and brand may vary from picture shown. Hurry, limited quantity. Check out the price of these at your local antique store if you want a shock!

**G2211 $4.95 ea.**

### Assortment of 3 Different AM Radios

**G2212 $12.95**

### Solar Powered / Dynamo AM/FM Radio



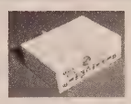
This radio is great for emergencies, camping, vacation travel, remote living, etc. It does not require batteries to operate because it has built in nicad rechargeables that can be recharged by the sun or a built in hand crank. The sound from the built in speaker is good quality and has room filling volume. These are blue in color and feature a tuning LED, power LED, charge switch, built in dynamo crank, built in solar panel, AM/FM switch, tuning control knob, volume control , carry strap, built in extendable antenna and a battery compartment for 2AA batteries (not included and not needed–for backup use only). Brand new in retail box–nothing else to buy. Makes a great gift for anyone!

**G1539 $29.95 ea.**

## Relays

### Control Modules

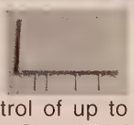
### OPTO22 IDC5 Control Module



Popular I/O Module by Opto 22 features isolation of 4000Vrms from input to output. Input voltage range is 12-32VDC. Output supply voltage is 5VDC@12mA. Input resistance is 1.5KΩ. Control resistance is 220Ω. Brand new white case.

**G12820 $2.49 ea.**

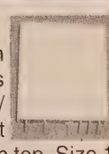
### Grayhill I/O Module Load 200VDC 1amp Control 18-30VDC



Type 70YY14291 features control input from 18-30VDC and output control of up to 200VDC @ 1amp. Red case with 4 pins. Size 1.7"W x 1"H x .39"W. Brand new.

**G2307 $2.00 ea.**

### Grayhill Power Input Module

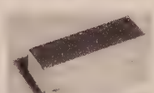


Type 70G-1DC15G is commonly used in low voltage (solar) applications. Input is 15VDC Logic. Control output is 35-60VDC/VAC. Brand new, labelled but we do not sheet or data. Has green LED indicator on top. Size 1 7/8" x 2 3/16" x 7/16".

**G2284 $1.99 ea.**

### 5V Types

### CP Clare MRBIA05 5VDC Relay



Compact relay by CP Clare features 5VDC 225Ω coil and 1 form A (SPST) contacts. Size: 1.12" L x .35" W x .35" H. Contacts rated 200V 0.5amp. Brand new.

**G2073 $1.00 ea. • 10/$8.00 • 100/$75.00**

### Aromat 2 Coil Latching 5VDC DPDT Relay

Aromat relay *TN2E-L2-5V* has two 5VDC 132Ω coils and is a latching type. Contacts are DPDT rated 1AMP at 30VDC or .5AMP at 125VAC. Size only 5.6mm(W) x 14mm(L) x 9.8mm(H). Has 10 solder pins on bottom. High quality prime relay is fully enclosed.

**G1999 $2.00 ea.**

### Genicon RF Type 5VDC DPDT Relay

Small metal case fully enclosed relay made for RF applications. Part #MFR01526 3SCC1002A2 by Genicon features 5VDC 56Ω coil & DPDT contacts. Size only 0.6" L x 0.3" W x 0.3" H. Has 8 leads for relay operation and 2 extra case ground leads. Brand new-Prime!

**G1821 $2.00 ea.**

### Magnecraft W171 DIP-17 5VDC Dip Relay

Small size dip relay features 5VDC 500Ω coil and SPST normally closed contacts rated .5amp. Has internal clamping diode across coil.

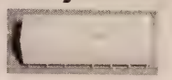
**G13575 $1.29 ea. • Tube of 25 for $24.00**

### Potter & Brumfield DIP 5VDC Dry Reed Relay

The JWD-107-1 has a coil voltage of 5VDC, a coil resistance of 500Ω, a minimum operating voltage of 3.8VDC, and a maximum operating voltage of 19VDC. Contacts are 1 form A (SPST) rated 10w max. Relay fits into a standard 14 pin IC socket. Brand new marked with the Potter & Brumfield part #.

JWD-107-1 **G1307 $1.00 ea • 100/$60.00**

### NAIS DS4E-S-DC5V 4PDT 5VDC Relay



Made by NAIS (Aromat) this compact relay features fully enclosed case for PC board mounting. Coil is 5VDC 125Ω. Contacts are 4PDT rated 2Amp 30VDC or .6Amp 125VAC. Size 1.38" L x .38" W x .38" H. Prime factory fresh part.

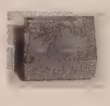
**G12902 $3.95 ea.**

### Super Sensitive 5VDC Mini Reed Relay

Super sensitive reed relay features a 700Ω coil and SPST contacts. Size: 1 1/16" x 3/8" x 3/8".

**G4194 $1.00 ea.**

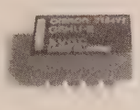
### Omron G6C-1114P 5VDC 10 Amp Relay



Fully enclosed relay features SPST contacts rated 10 Amp @ 250VAC. Coil voltage 5VDC. Size only 3/4"L x 9/16"W x 3/8"H. Brand new with solder pins.

**G1619 $1.49 ea.**

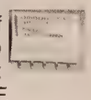
### Omron G6HU-2 5VDC DPDT Relay



5V single coil latching low signal relay. Size .55" L x .35" W x .20" H. Rating is 1amp at 30VDC or 1/2amp at 125VAC. Brand new–Prime!

**G2011 $1.50 ea.**

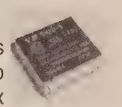
### Surface Mount 5VDC DPDT Relay



Tiny SMD relay features coil voltage of 5VDC and DPDT contacts rated 1 amp 30VDC, .5A 125VAC. Size only 9/16"L x 3/8"W x 5/32" T. Made by Omron G6H-2F.

**G7453 $1.00 ea.**

### 5VDC DPST Relay

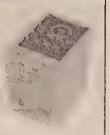


Made by Takamisawa this relay features a completely sealed case and 5amp 250VAC contacts. Size about 1.14"L x .5"W x 1"H. Part# 5MBU-5. Coil resistanc about 34Ω.

**G12969 $1.00 ea.**

## 6V Types

### 3PDT 6VDC Heavy Duty Relay



Guardian Part #1315PVS A 410 367283-11 relay features 3PDT contacts rated 5 amp 120VAC. Size 1 3/8" x 13/16" x 1 1/16". Has solder pins and dust cover. Prime.

**G9473 $1.00 ea. • 10/$6.00 • 100/$55.00**

### Guardian 6VDC 4PDTY Relay

Heavy duty compact relay features see-thru dust cover and 4 DPDT contacts rated 5 amps at 120VAC. Size about 1 5/16" T x 1 1/16"L x 3/4"W. With solder terminals on bottom. Guardian part A410-362626.

**G1684 $1.49 ea.**

### American Zettler 6VDC SPDT Relay

Type AZ8-1CH-6DE features small size and SPDT 6Amp 240VAC contacts. Overall size: .83"L x .62"W x .56"H. Fully enclosed type with solder pins. Coil resistance is 81Ω.

**G12807 $1.00 ea.**

## 9V Types

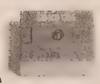
### 10AMP Contact SPST 9VDC Relay

Fully enclosed relay by OEG type SDT-SS-109DM features 9VDC coil and SPST 10AMP 250VAC contacts. Size only 24mm (L) x 10mm(W) x 24mm(H). Has solder pins for PC mounting on bottom. Brand New.

**G1996 $1.25 ea. • 10/$11.00 • 100/$105.00 • 1000/$999.00**

## 12V Types

### American Zettler Sensitive Type 12VDC SPDT Relay



Type AZ8-1CH-12DE relay features small size and SPDT 6Amp 240VAC contacts. Overall size: .83"L x .62"W x .56"H. Fully enclosed type with solder pins. Coil resistance is 324Ω. Only requires 37ma to operate.

**G12808 $1.49 ea.**

### 4PDT 12VDC Compact Relay

Super compact 4PDT relay features 5VDC coil and .6A 125VAC or 1A up to 30VDC contacts. Size only 1 3/8" x 3/8". Made by Omron type G6A-434P-ST-US.

**G6814 $2.50 ea.**

### Miniature Potter and Brumfield 12VDC SPDT Relay

Small fully enclosed relay features SPDT 1Amp 24VDC or .5Amp 120VAC contacts. Features operation from 12VDC. Coil resistance about 680Ω. Size 15mm (L) x 11mm(W) x 10.5mm(H). Type T81H5D312-12. Prime-high quality!

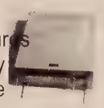
**G1934 $1.29 ea. • 10 for $11.00**

### Small SPDT 12VDC Relay

Aromat HB1-DC12V relay features clear dust cover and SPDT 1amp @ 120VAC contacts. Size only 13/16"L x 7/16"W x 9/16"T.

**G12708 $1.49 ea.**

### Compact Heavy Duty 12VDC Relay



This small relay 7/8 x 3/8 x 15/16 features 10 amp @ 250 VAC SPST contacts. Made by OEG type OST-S-112DM TV5. Sealed case with removable dust cover and wire pin leads.

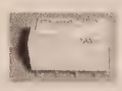
**G8784 $2.95 ea. • 10/$27.50 • 100/$250.00**

### NAIS DS2E-M-DC12V Sensitive DPDT Relay

Compact DPDT 12VDC relay by NAIS (Aromat) features 2Amp 30VDC or .6Amp 125VAC contact rating. Fully enclosed case is only .8" L x .39" W x .38"H (excluding pins). Coil resistance is about 340Ω. Made for PC board mounting.

**G12901 $2.49 ea.**

### AROMAT DS2YE-SL2-DC12V 12VDC DPDT Latching Relay



Aromat 12VDC latching relay uses 2 coils. One is to operate the relay (set) the other is the reset. Features 800Ω coils and DPDT contacts rated 1Amp 30VDC or .3Amp 125VAC. Fully enclosed type with 10 PC pins. Size .79" L x .39" W x .39" H. Brand new.

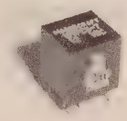
**G12906 $2.00 ea.Factory Box of 50/$90.00**

### Potter & Brumfield 12VDC SPDT Relay

Prime quality SPDT relay features 12VDC coil and contacts rated 10A @ 250VAC. Compact black sealed case with solder pins. Size only 1 1.8" W X 1" H X 1/2" D.

**G1368 $2.25 ea.**

### Microminiature 12VDC DPDT Class 7 PC Board Relay



Made by Magnecraft, this DPDT relay is only .41" square x .428" high. It operates from 12VDC and has DPDT contacts rated 2Amp @ 24VDC or .6Amp @ 100VAC. Type W7PCX-7 is fully enclosed and has 8 solder pins. Coil resistance is 440Ω. This is definitely one of the tiniest practical relays made. Prime–worth about $7.00.

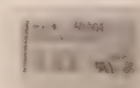
**G12802 $2.95 ea. • 10 for $25.00 100 for $220.00**

### 12VDC Relay

Compact polarized DPDT relay, Contacts rated 1 amp at 120V or 2 amp at 30 VAC DS2YE-S-DC12V.

**G6810 $2.00 ea.**

### NAIS 12VDC DPDT Miniature Relay Sensitive Type

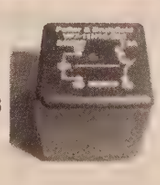


Type D2E-M-DC12V coil and DPDT 2amp @ 30VDC contacts. Size is only .8"L x .4"W x .4"H. Polarized coil is 350Ω. Fully enclosed type with PC board pins.

**G12764 $2.00 ea.**

## 24V Types

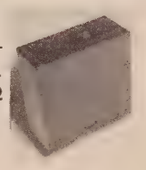
### Super Heavy Duty Relay SPST 70 AMP Contacts



Potter & Brumfield 24VDC relay with SPST contacts rated 70 amps. Has solid heavy duty solder posts on bottom. Size 1 square x 7/8 high. Brand new. Potter & Brumfield part # VF7-11H12-Z02.

**G1760 $1.29 ea. • 10/$12.00 100/$110.00 1000/$1000.00**

### 24VDC NAIS Relay



Slim power relay with high capacity inrush current capability. Contacts are SPST (1 Form A) rated 5Amp 277VAC or 5Amp 30VDC. Max switching power 1,385VA, 150W. Coil resistance 1,087Ω (±10%). Size: 24mm x 11mm x 25mm. Brand new prime relays.

**G13670 $1.00 ea.**

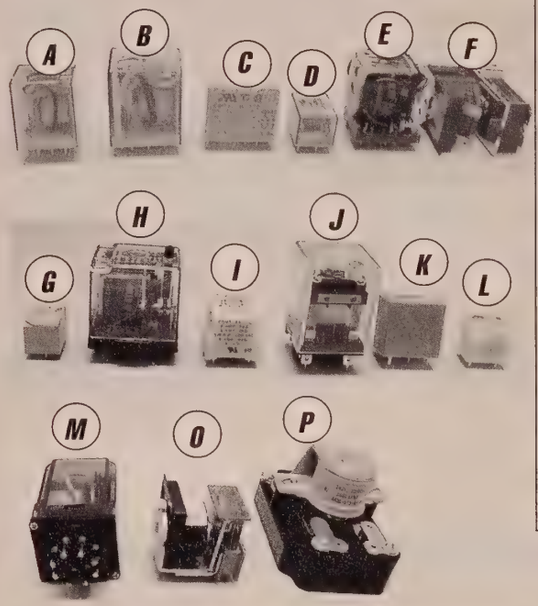
NEW

R

## Miscellaneous Relays

### Guardian Relays

Prime relays made by famous Guardian Electric Company. All are brand new. Many have clear or opaque dust covers or sealed covers. Pictures represent size and shape only–terminal types on bottom may vary.




| Coil Voltage | Fig | Guardian Part# | Contacts | Size | Stock# | Price |
|---|---|---|---|---|---|---|
| 6VDC | A | A410-363732-01 | 5amp DPDT | 7/8" x 3/4" x 1-1/16" | G9632 | $1.00 |
| 6VAC | B | A410-36300-11 | 5amp 4PDT | 1-1/16" x 13/16" x 1-3/8" | G9633 | $1.50 |
| 6VAC | B | A410-366769-11 | 5amp 4PDT | 1-1/16" x 13/16" x 1-3/8" | G9634 | $1.50 |
| 9VDC | C | A410-367009-18 | 5amp SPST | 13/16" x 5/8" x 1/2" | G9635 | $1.00 |
| 20VDC | G | A410-367392-59 | 6amp SPDT | 7/8" x 5/8" x 5/8" | G9640 | $1.00 |
| 24VDC | D | A410-367241-13 | 10amp SPDT | 1-1/8" x 1/2" x 1" | G9641 | $1.25 |
| 48VDC | K | A410-365391-108 | 10amp SPDT | 1-1/4" x 3/4" x 1-3/16" | G9646 | $1.25 |
| 48VDC | L | A410-366316-14 | 3amp SPDT | 1" x 11/16" x 3/4" | G9647 | $1.00 |
| 48VAC | A | A410-363731-14 | 5amp DPDT | 7/8" x 3/4" x 1-1/16" | G9648 | $1.25 |
| 90VDC | B | A410-362626-15 | 5amp 4PDT | 1-1/16" x 13/16" x 1-3/8" | G9649 | $1.50 |
| 90VDC | B | A410-365372-15 | 13amp DPDT | 1-1/16" x 13/16" x 1-3/8" | G9650 | $1.75 |
| 110VDC | J | A410-366187-16 | 10amp SPDT | 1-3/8" x 1-3/8" x 2-1/8" | G9651 | $1.25 |
| 110VDC | B | A410-367152-16 | 15amp SPDT | 1-1/16" x 13/16" x 1-3/8" | G9652 | $1.75 |
| 110VDC | B | A410-367026-16 | 13amp DPDT | 1-1/16" x 13/16" x 1-3/8" | G9653 | $1.75 |
| 240VAC | B | A410-365627-16 | 13amp DPDT | 1-1/16" x 1-3/16" x 1-3/8" | G9661 | $1.75 |
| 240VAC | B | A410-367028-10 | 13amp DPDT | 1-1/16" x 13/16" x 1-3/8" | G9662 | $1.75 |
| 240VAC | B | A410-367151-16 | 15amp SPDT | 1-1/16" x 13/16" x 1-3/8" | G9663 | $1.75 |
| 240VAC | O | A410-061494-05 | 10amp DPDT | 1-3/4" x 1" x 1-3/4" | G9664 | $1.75 |
| 240VAC | F | A410-063646-00 | 10amp 3PDT | 1-5/8" x 1-1/8" x 1-3/4" | G9665 | $2.00 |
| 240VAC | P | A410-063145-00 | 25amp DPST | 3-1/4" x 2-1/2" x 2" | G9666 | $5.00 |

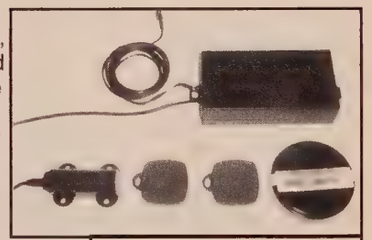
## Remote Controls

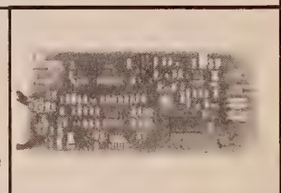
### IR Remote Control System

Simple set up consists of 1 fully contained in a case IR remote and a IR 2 channel receiver board. The board is about 3"L x 1"W with an IR receiver module 1.7" x .9" connected to it. When you press the down arrow first on the IR remote a 1 second 9V output is produced. Now if you press the up arrow key, a 1 second output is produced but its the opposite polarity. Can be connected directly to a small 12VDC motor, an LED or a relay (using the output pulse to trigger an SCR would give you a latching circuit. The IR remote can activate the receiver from 40ft away even with normal room lighting. It uses 3 AAA batteries (not included). The receiver works from 9VDC up to 12VDC - you supply power. We are offering the IR remote control and matching receiver board with hookup info on battery input and output. You need to come up with your control relay/SCR etc. circuitry. These are 100% functional new units.

**G12948 $7.95 ea.**

### Latest Technology Key Fob Proximity Detector





These are being used to prevent thefts of autos, provide increased security in buildings, to operate electronic gates, garage doors, computers, etc. Consists of a small key fob that is totally self contained (no moving parts or batteries) and a proximity sensor and associated receiver circuit box. When the key fob is brought within 2.75" of the sensor, the unique data encoded in the key fob is transferred to the sensor/receiver, activating whatever device-relay, solenoid, lights, locks, etc.-that you have connected to the receiver. These are brand new units consisting of 2 key fobs, a master programmer key in a sealed container, and a receiver box with sensor. The receiver is very sophisticated and cannot be activated except by the key fobs that come with it. If someone steals one of the key fobs you can program a new code with the master programmer key fob into the remaining fob so that the stolen one will no longer work. The coding of new keys does not use a computer and can easily be completed in a few seconds. The system is absolutely amazing. The receiver operates on 12VDC and requires only the addition of a simple relay and transistor or relay, transistor and 4027 IC circuit to control your choice of items.

**Details:** The key fob is completely waterproof, weatherproof and crunch resistant. Size : 1.4" square and is meant to be attached to your keychain and has a recessed circle to allow you to place a custom label (if desired). The sensor is about 2.1" x 1.3" and is attached by a 20" cable to the 4 1/8" x 2 1/8" receiver box. The sensor can be mounted in wood, behind glass or plastic and still function perfectly. The sophisticated receiver uses 6 ICs and outputs a momentary voltage level when the correct key fob is brought within 2.75" of the sensor. We supply 2 simple schematics for the control circuit you need to connect to the receiver. One is momentary which means you will have a relay closure as long as the fob is placed next to the sensor. The other circuit uses a 4027 IC and it allows you to wave the fob next to the sensor to latch the relay "on." The next time you wave it near the sensor, the relay turns "off." Parts for either of the circuits are sold separately below. This new technology has thousands of applications. As soon as you buy one of these units you'll want to purchase more as you will realize all of the different ways it can automate or control security tasks. Brand new with complete instructions.

**G12915 $29.95 ea.**

**Exciting New Technology!**

***Momentary Circuit Parts for above:*** Consists of a transistor, relay, several diodes, a capacitor and resistor (no PC board). With easy to build schematic.

**G12916 $2.50**

***Latching Circuit Parts for above:*** Consists of a transistor, several resistors, several diodes, a 4027 IC, IC socket, several capacitors, and a relay (no PC board). With schematic.

**G12917 $3.50**

## Chip Resistors

Tiny SMD resistors, use value followed by "SMD RES" for stock # (i.e. "15K SMD RES"). All case sizes are "1206" unless noted by a symbol (see below).

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0Ω | 22Ω | 51Ω | 130Ω | 270Ω | 560Ω | 1.5K | 2.7K | 5.62K | 9.31K | 16K | 27K | 47K | 82.5K | 162K | 357K | 562K |
| 6.8Ω | 27Ω † | 56Ω | 180Ω | 300Ω ∂ | 620Ω | 1.74K | 2.87K | 6.2K | 10K | 16.5K | 27.4K | 51K | 86.6K | 180K | 390K | 1Meg |
| 10Ω | 30Ω | 62Ω | 200Ω | 330Ω | 649Ω | 1.8K | 3.3K | 6.8K | 10.2K | 18K † | 28K | 56K | 91K | 200K | 402K | 2Meg |
| 12Ω Δ | 33Ω | 68Ω | 205Ω | 360Ω ∂ | 680Ω | 2.15K | 3.9K | 7.5K | 11K | 18.2K | 30.1K | 59K | 100K | 240K | 430K | 2.2Meg |
| 15Ω | 39Ω | 82Ω | 220Ω | 390Ω | 820Ω | 2.2K | 4.3K † | 8.06K | 12K | 20K | 31.6K | 61.9K | 110K | 270K | 470K | 3.3Meg |
| 18Ω | 43Ω † | 100Ω | 240Ω | 430Ω | 1K | 2.4K | 4.7K | 8.2K | 12.1K | 22K | 33K | 68K | 120K | 300K | 511K | 4.7Meg |
| 20Ω | 47Ω | 120Ω | 243Ω | 470Ω | 1.27K | 2.43K | 5.1K | 8.25K | 15K | 24K | 39K | 82K | 160K | 330K | 560K | |

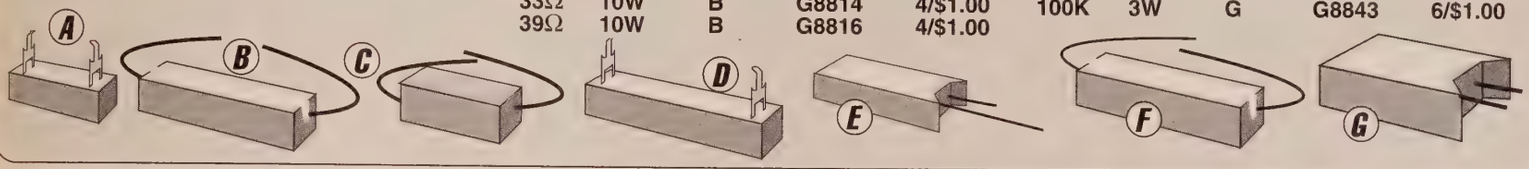
† = 0805
CASE SIZE: Δ= 1210
∂= 1812

Your Choice Of Any One Value (No Mixing)
**20/$1.00**
**100/$4.00**

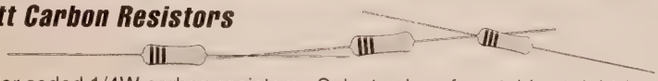
## Sandstone Power Resistors

We have a tremendous range of quality sandstone power resistors for you to chose from at one of the lowest prices anywhere. These are made by Dale, IRC, etc. Almost all are 10% tolerance. Prime marked units.

| Value | Power | Fig | Stock | Price |
|---|---|---|---|---|
| 7.5Ω | 5W | C | G8804 | 5/$1.00 |
| 10Ω | 5W | C | G8805 | 5/$1.00 |
| 10Ω | 7W | E | G8806 | 5/$1.00 |
| 12Ω | 10W | B | G8809 | 4/$1.00 |
| 20Ω | 10W | D | G7711 | 4/$1.00 |
| 22Ω | 10W | D | G8811 | 4/$1.00 |
| 33Ω | 10W | B | G8814 | 4/$1.00 |
| 39Ω | 10W | B | G8816 | 4/$1.00 |
| 68Ω | 25W | F | G8817 | 3/$1.00 |
| 100Ω | 10W | B | G8820 | 4/$1.00 |
| 950Ω | 5W | C | G8832 | 5/$1.00 |
| 1.2K | 10W | B | G8835 | 4/$1.00 |
| 1.8K | 10W | D | G7718 | 4/$1.00 |
| 3.3K | 5W | A | G8837 | 5/$1.00 |
| 100K | 3W | G | G8843 | 6/$1.00 |




## 1/4 Watt Carbon Resistors



Prime color coded 1/4W carbon resistors. Select values from table at right (no mixing). Use the value followed by (1/4W) for stock number.

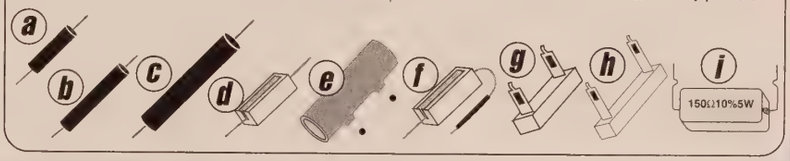
| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 12 | 51 | 300 | 1K | 3.9K | 11K | 43K | 180K | 750K | 6.2Meg |
| 1.2 | 13 | 68 | 330 | 1.1K | 4.3K | 12K | 47K | 200K | 820K | 10Meg |
| 2.7 | 15 | 82 | 360 | 1.3K | 5.1K | 13K | 51K | 220K | 910K | 15Meg |
| 3.6 | 16 | 100 | 390 | 1.5K | 5.6K | 15K | 56K | 240K | 1Meg | |
| 3.9 | 18 | 120 | 430 | 1.6K | 6.2K | 16K | 62K | 270K | 1.3Meg | |
| 4.7 | 20 | 130 | 470 | 1.8K | 7.2K | 18K | 68K | 300K | 1.5Meg | |
| 5.1 | 22 | 150 | 510 | 2K | 7.5K | 20K | 75K | 330K | 1.6Meg | |
| 5.6 | 24 | 160 | 560 | 2.2K | 7.8K | 22K | 82K | 390K | 1.8Meg | |
| 6.8 | 27 | 180 | 620 | 2.4K | 8.2K | 24K | 91K | 470K | 2Meg | |
| 8.2 | 33 | 200 | 680 | 2.7K | 8.5K | 30K | 100K | 510K | 2.2Meg | |
| 9.1 | 36 | 220 | 750 | 3K | 8.8K | 33K | 110K | 560K | 3.3Meg | |
| 10 | 39 | 240 | 820 | 3.3K | 9.1K | 36K | 120K | 620K | 4.7Meg | |
| 11 | 47 | 270 | 910 | 3.6K | 10K | 39K | 160K | 680K | 5.6Meg | |

**100/$3.50** Quantites of any one value (no mixing)

## Power Resistors

Prime power resistors. We have several different package styles. Made by various manufacturers such as Dale, TRW, Ward Leonard, etc. Select values from table below.

| Stock# | Value | Watts | Fig. | Price |
|---|---|---|---|---|
| G6172 | 3.3Ω | 10w | d | 3/$1.00 |
| G6173 | 3.65Ω | 5w | a | 4/$1.00 |
| G3675 | 3.9Ω | 10w | h | 3/$1.00 |
| G6175 | 5.6Ω | 5w | d | 4/$1.00 |
| G6176 | 6.8Ω | 5w | d | 4/$1.00 |
| G5226 | 25Ω | 25w | e | 2/$1.50 |
| G5645 | 26.1Ω | 10w | c | 2/$1.00 |
| G3422 | 28Ω | 30w | e | 2/$1.00 |
| G5646 | 39.2Ω | 7w | b | 2/$1.00 |
| G5553 | 150Ω | 5w | a | 3/$1.00 |
| G6180 | 750Ω | 3w | d | 5/$1.00 |
| G6182 | 750Ω | 10w | c | 3/$1.00 |
| G3673 | 3.1K | 10w | c | 3/$1.00 |
| G6183 | 62K | 3w | a | 5/$1.00 |




## Large Power Resistors

Prime ceramic type large wirewound power resistors made by Memcor, Dale, TRW, etc. All have solder terminals.

| Value | | Stock# | PRICE |
|---|---|---|---|
| 125Ω | 160W | G6717 | $4.50 ea. |

## 18Ω 5 watt 2% Power Resistor

Precision 2% 5 watt 18Ω power resistor by Memcor. The body length is 23mm x 7mm (dia). With long axial leads. Blowout price!

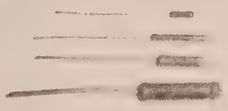
**G4385 5/$1.00 • 100/$15.00**

## 1 Meg Precision Resistor

Designed for highvoltage supplies this resistor is blue epoxy coated and rated 1 Meg 1%. Size of case about 1" x 1/2" x 1/16".

**G1629 $1.00 • 10 for $8.00**

## CADDOCK Special High Voltage Resistors



Special high voltage resistors made for the government. These are all 1% tolerance and individually packaged with their part # and value labeled. Each has full length axial leads. Caddock types represented are M650 to MG721. These are worth many times our price! Prime–New!

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1KΩ | 2KV | 1watt | G2033 | $1.75 ea. | 3MΩ | 2KV | .8watt | G2046 | $1.75 ea. |
| 5.11KΩ | 1KV | 1watt | G2034 | $1.50 ea. | 3.74MΩ | 2KV | .8watt | G2047 | $1.75 ea. |
| 100KΩ | 2KV | 1watt | G2036 | $1.75 ea. | 4.53MΩ | 2KV | .8watt | G2048 | $1.75 ea. |
| 100KΩ | 1KV | .6watt | G2037 | $1.50 ea. | 5.49MΩ | 2KV | .8watt | G2049 | $1.75 ea. |
| 174KΩ | 1KV | .6watt | G2038 | $1.50 ea. | 6.34MΩ | 2KV | .8watt | G2050 | $1.75 ea. |
| 191KΩ | 1KV | .6watt | G2039 | $1.50 ea. | 6.49MΩ | 4KV | 1watt | G2051 | $2.00 ea. |
| 422KΩ | 600V | .5watt | G2040 | $1.00 ea. | 7.32MΩ | 2KV | .8watt | G2052 | $1.75 ea. |
| 845KΩ | 600V | .5watt | G2041 | $1.00 ea. | 8.06MΩ | 4KV | 1watt | G2053 | $2.00 ea. |
| 900KΩ | 600V | .5watt | G2042 | $1.00 ea. | 10.2MΩ | 2KV | .8watt | G2055 | $1.75 ea. |
| 909KΩ | 2KV | .8watt | G2043 | $1.75 ea. | 11.3MΩ | 2KV | .8watt | G2056 | $1.75 ea. |
| 1.74MΩ | 2KV | .8watt | G2044 | $1.75 ea. | 14.6MΩ | 2KV | .8watt | G2057 | $1.75 ea. |
| 2.5MΩ | 2KV | .8watt | G2045 | $1.75 ea. | | | | | |

## Resistor Assortments

### Box of Precision Resistors

Here is a super way to stock up on various precision resistors. You get a 7"x 5"x 5" cardboard box full of quality 1% precision resistors. Contains at least 1,000 pieces of color coded or value marked precision resistors. Some PC leads, some tape and reel, and some bulk packed. You will find1/8 watt to 1/2 watt types. Tremendous value!!

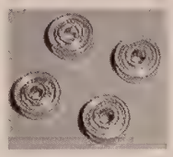
**G3436 $18.00**

### Box of Resistors

Large 7" x 5" x 5" cardboard box full of all types of resistors. You'll find precision, carbon comp, carbon film, power, 1/4w, 1/2w and 1/8w types. Some are bulk, some are taped together. Some may be PC leads. Minimum 1,000 pcs. in each box. Here's a GREAT way to stock up!

**G3006 $10.00**

### Miniature Bearing



Stainless steel miniature bearing looks like it would be great for making precision miniature robots. Overall outer diameter is 10 mm, width is 4 mm and inner diameter is for shafts about 3 mm in diameter. Very high quality unique item. Sold only in sets of 4.

**G1840 $3.98/per set of 4**

### Micro Size Bearing

Unique bearing features a 3mm dia. Axle which is 7.3mm long overall. The outer diameter of the rotating bearing is 6.3mm and the width of the rotating bearing is 2.7mm. This leaves about 4.3mm of the axle protruding which can be epoxied or pressed into a hole so that the bearing can be used to make smooth operating wheel mounts with built in axle for miniature robots. Precision made from stainless steel. Sold in sets of 4 only.

**G1939 $3.00/per set of 4**

### Tape Drive Gears

Delco metal base assembly consists of two 1" diameter gear type drive wheels that have a 0.66" diameter drive gear underneath each 1" gear. It also has a 0.87" diameter gear in the center. Overall size 4" x 1". Brand new! Great source of small robotic parts.

**G4579 $1.00 ea.**

### Small Bearing

Small bearing is 5/8" Dia. OD and 7/32" ID. Smooth and high quality made from stainless steel. Brand new.

**G1558 $1.49 ea.**

### Ball Bearing Swivel Coaster

Great for use in larger robots, this coaster features a hard black plastic 1.25" diameter wheel attached to a freely rotating ball bearing type 360° metal swivel plate which is 1 3/16" x 1 3/4" with 4 mounting holes. The dimension from the surface of the plate to the bottom of the coaster wheel is about 1 1/2". The width of the black wheel is about 1/2". Very smooth action makes a great omni directional wheel on a 3 wheel robot! New.

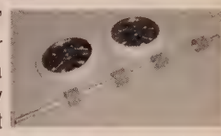
**G4600 $1.29 ea.**

### Gear Head Assembly

Compact 29RPM plastic gear head assembly contains a good quantity of small gears inside a 1 3/4" Dia. x 3/4" open type plastic housing (excluding ears). On the top side is a .125" Dia. x 9/16" L shaft and on the bottom is a hole with gear that a motor with a gear (we don't have the motor) was to be attached. Made by Hankscraft. The gear head is new and it looks like it would be great for robotics, however we are selling them cheap because we do not have the motor or additional information.

**G4518 $2.95 ea.**

### Large Robot Axle & Wheels



Hard to find item: a large 14" axle and two 4" diameter wheels. The axle is actually a stainless steel roller assembly from a copy machine but it matches perfectly with the wheels. It even has rubber keepers that can be removed by taping with a hammer then re-installed to hold wheels on.

**1 axle & 2 wheels per set**

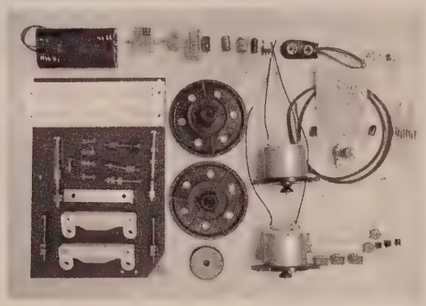
**G3925 $6.00**

## 34 In 1 Deluxe Exploration ROBOTICS LAB

This lab introduces you to the fundamentals of robotics technology while building 28 different robots in one. You start by building a simple robot, and then dissassembling it to progress to building more complex designs which are remote controlled with IR (infrared) vision and object avoidance. This lab is totally REUSABLE and will stimulate your mind in robotic technology. Try it! You will love it!

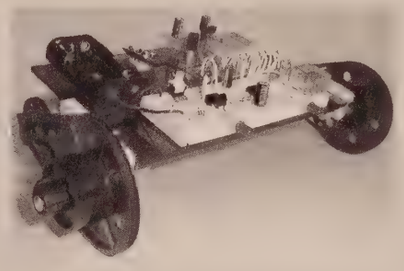
### Lab Includes:

- High Quality Breadboad
- 3 Wheels, 2 Motors, 2 Belts, and Various Mechanical Parts
- Attractive Smoked Plexiglass Base
- All necessary Electronic Parts
- Fully Illustrated Instruction Manual



### Learn About:

Robot Motor Traction & Power System
Robotic Motion
Time Controlled Motion
Remote Controlled Motion
Robotic Vision (CDS & Infrared)
Sound Detection & Control
... and many more topics.



### Build the Following Robots:

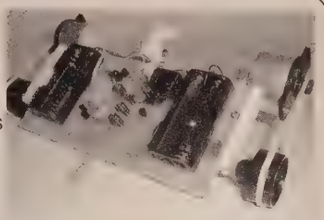
Explorer I and II
The Unstoppable
The Independent Minded Robot
The Night Runner
The Day Runner
The IR (eye) Robot
Obedient I (Remote Controlled Robot)
Obedient II (Remote Controlled Robot)
Robot Pet
Obstacle Avoiding Robot I
Obstacle Avoiding Robot II
Big Ears Robot
The Music Dancer Robot
... and many more.

**34 in 1 Deluxe Exploration Robotics Lab**
**C6762 $89.00**

**Check out the experiments in the 34 in 1. Each one is designed to progress in an easy-to-follow and logical manner. Each experiment explores both meaningful and interesting topics:**

1- **Lesson 1:** Introduction To Robotics
2- **Inventory & Parts Identification**
3- **Lesson 2:** The Chaney Robotics Lab
4- **Experiment 1:** Assembling and Testing the Robot Motor Traction System
5- **Experiment 2:** Assembling the Robot Base and Power System
6- **Experiment 3:** Assembling and Testing the Relay Control Board
7- **Experiment 4:** Robot Forward Motion
8- **Experiment 5:** Robot Backward Motion
9- **Experiment 6:** Robot Forward Right Turn
10- **Experiment 7:** Robot Backward Right Turn
11- **Experiment 8:** Robot Hard Right Turn
12- **Experiment 9:** Robot Forward Left Turn
13- **Experiment 10:** Robot Backward Left Turn
14- **Experiment 11:** Robot Hard Left Turn
15- **Experiment 12:** Time Controlled Motion I
16- **Experiment 13:** Time Controlled Motion II
17- **Experiment 14:** Time Controlled Hard Right Turn
18- **Experiment 15:** Time Controlled Hard Left Turn
19- **Experiment 16:** Explorer I Robot
20- **Experiment 17:** Explorer II Robot
21- **Experiment 18:** The Unstoppable Robot
22- **Experiment 19:** The Independent Minded Robot
23- **Experiment 20:** The Night Runner Robot
24- **Experiment 21:** The Day Runner Robot
25- **Experiment 22:** Infrared (IR) Vision
26- **Experiment 23:** The IR-Eye Robot
27- **Experiment 24:** Obedient I -IR Remote Controlled Robot
28- **Experiment 25:** Obedient II- IR Remote Controlled Robot
29- **Experiment 26:** Robot Pet
30- **Experiment 27:** IR Obstacle Avoiding Robot I
31- **Experiment 28:** IR Obstacle Avoiding Robot II
32- **Experiment 29:** Sound Detection (Robot Ears)
33- **Experiment 30:** Big Ears Robot
34- **Experiment 31:** The Music-Dancer Robot

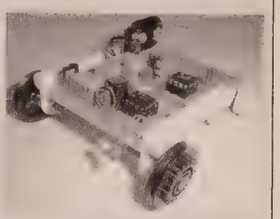
### Treasure Trakkor Robot Kit



This exciting and amazing new robot kit travels at super fast speeds looking everywhere for lost coins. As soon as the Treasure Trakkor detects a coin lying on the floor, it shuts off its high speed motors and sounds an electronic tone, plus it lights up 2 bright electronic LEDs to tell humans that it has detected money. Just hit the reset button and the Treasure Trakkor Robot starts exploring again. It uses a unique spring type vibration sensor that causes it to change direction whenever it hits an obstacle or wall. Operates on any hard smooth surface (gym floor, vinyl, concrete, marble, etc.). Features bright colorful blinking LEDs, 2 powerful motors, a dip switch to adjust turning times. Size of robot is about 8 1/2" x 4 1/2". Operates on four AA batteries (not included). Complete with all parts, PC board and instructions. Skill level 2.

**C6760 $38.99 ea.**

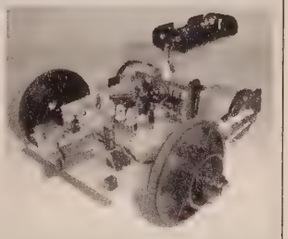
### Martian Micro-Rover Robot Kit



We all know about the exploring robot Sojourner sent by NASA to explore Mars. Our Martian Micro-Rover is also an exploring robot that has an electronic brain (control) that responds to stimulus. It rests during the day or in a lighted room; it starts exploring at night or when the light in the room decreases. Its electronic brain causes this robot to move forward and backward in a straight line. This motion can be adjusted (programmed) by using two potentiometers. As it moves, different lights blink on, and it starts searching for a reflective surface (rock, white shelf, white paper, white plastic, etc.) through the use of an LED/CDS sensing system. When it finds something, it stops to indicate its discovery. It also has a control to adjust the sensitivity of the LED/CDS sensing system. You will discover that this little Martian Micro Rover has its own personality as it moves in a way almost impossible to predict, analyzing, through its CDS (cadmium-sulfite) eye, the materials it finds in its way. You will love your Martian Micro-Rover and it will amaze you and your friends. For use on flat smooth surfaces, desktops, tables, vinyl or smooth wood floors (gym floor). Approximate size: 3 1/2" long, 3 1/4" wide, 1 3/4" high. Operates on one 9V battery (not included). Complete with all parts, PC board and instructions. Skill level 2.

**C6759 $20.99 ea.**

### IR Vision Rover Robot Kit



This incredible robot can actually see! As it explores, it emits invisible beams of IR (infrared) light which reflect off any obstacles in its path, including wall, rocks, humans, boxes, etc. Its'simple brain and sensor causes the IR Vision Rover Robot to turn backwards and then go forward in a different direction avoiding the obstacle it has detected up to one foot away. It can even be remotely controlled from up to 25 feet away by using any standard VCR/TV IR remote control that you have. Simply point and press almost any button on your remote and you will notice that your IR Vision Rover Robot will immediately back up and then go forward in a different direction. The Rover emits beeps and blinks bright colorful LEDs as it explores. Operates from only two AA batteries (not included). Features DC-DC converter circuitry, sensitive IR sensor module, 2 IR LEDs, 9 colorful LEDs, 2 powerful motors and reliable drive train. This entertaining robot will amaze everyone who sees it! It's a fun kit to build, and an excellent introduction to robotics. Size about 5 1/2" x 6 1/2". Complete with all parts, PC board and instructions. Skill level 2.

**C6761 $46.99 ea.**

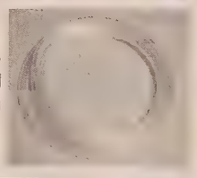
## Science / Laboratory Items

### Micro Geiger Mueller Tube

Tiny thin walled GM tube is only 1.3" long by .36" diameter. Designed to detect primarily Gamma radiation. Build the world's smallest Geiger counter with this tube. Operating Voltage range 450-650 volts

**G2903 $34.95 ea.**

### Clear 0.15" (3.75mm) Flexible Tubing



Clear 0.15" (dia) x 40" long piece of flexible plastic tubing. Perfect for all hobby applications with air or water. Tubing is high quality Tycon® 5-50-HL Class VI type. Brand new in sealed manufacturer bag.

**G4375 $1.00**

## Sensors

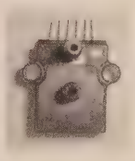
S

### Magnetic Sensitive Hall Effect Sensor

Tiny, unique, 3 lead semiconductor device can be connected to a simple 1 transistor circuit to operate a LED or close relay contacts when a magnet is brought near it. When the magnet is flipped over (change poles) and brought near the sensor-the relay contacts will open or the LED will go off. These are brand new and we include in each package of Hall Effect sensors a schematic of the hookup of a one transistor driven circuit described above. The Hall Effect sensors are about half the size of a T092 transistor and will have several different markings, however they are all basically the same part.

**G1994 4 for $2.00**

### SenSym Solid State Pressure Sensor



Type SCX05DN differential/gauge pressure transducer features precision compensation and 0-5PSID range. Output is 0-60MV, supply voltage +20, Sip package, temp range -40°C to +85°C. These are brand new in mfg. packaging. Worth over $44 each. Size appx. 28mm x 27mm.

**G12759 $12.00 ea.**

### PIR Sensor ?

Large area Silicon sensor with built in transistor preamplifier stage. We think this was made for body heat sensing PIR people detectors. The part # is F0I0H. If you pop the back off from one of these you can see a SMD transistor, a SMD resistor and the back side of the silicon sensor, so you should be able to figure out the 3 leads of this sensor, however we don't have the specs, hookup or any other info - you figure it out. These are brand new prime worth many times our price. Size 5/16" square.

**G9270 $1.00 ea. • 10/$8.00 100/$75.00 • 1000/$700.00**

### Precision Temperature Sensor ICLM35DZ

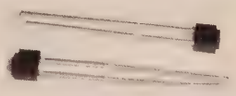
This precision T092 plastic package IC temperature sensor gives an output of 10mV per degree centigrade. Typical accuracy is 1/4°C at room temperature. Operates from 5VDC up to 35VDC, output current 10mA. Temperature range 0°C to 100°C. Very simple to use.

**G12949 $1.49 ea.**

**LM35CZ** Similar to above but has a temperature range of -40°C to 110°C.

**G12964 $5.95 ea.**

### Small Infrared Sensors



Small "Top View" IR sensors feature a built in IR filter. These black case units have long leads and are only 1/4" x 1/8" x 1/16" in size. Made by Honeywell.

**G8743 5/$1.00 • 100/$18.00 • 1000/$175.00**

### Tiny Gold Plated Sensor

We are not sure of the specs on this but it is a gold plated case optical sensor with the window on top. It has 2 long gold plated leads and the case is about 4 mm in dia.

**G1838 $1.00 ea.**

### Special Tilt Sensor

Fully enclosed sensor to detect tilt movement does not use hazardous mercury. Consists of 2 plated metal surfaces and a weighted metal rod. The assembly is about 9/16" diameter x 1 1/8" long and has 5" long flexible leads. When the sensor is tipped, the rod makes contact with the plates. Fully enclosed.

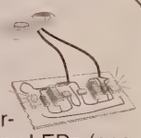
**G12811 $1.00 ea.**

# SMD / Surface Mount Items

**We sell hundreds of SMD components. Look for them in the section next to their full size counterparts throughout this catalog!**

Resistors • Tantalum Capacitors • Integrated Circuits • Voltage Regulators
Diodes • Transistors • EMI Filters • Ferrite Beads • Potentiometers• Crystals• Fuses

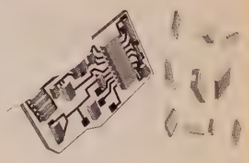
### Surface Mount Technology Kit



The latest technology in electronic products is surface mount components; tiny, leadless components that are used in almost everything from computers to VCRs. Now it's possible to learn more about surface mount technology through the construction of our new Surface Mount Technology LED Flasher Kit. This kit contains 2 bright tiny LEDs (one red and one green) that alternately flash. The 2 transistor multivibrator circuit uses the same tiny surface mount devices (SMD) as used in almost all late model sophisticated electronic products. This kit requires a drop of glue (not included) to secure each SMD component to the 1 5/8" x 3/4" circuit board, then solder each SMD component onto the etched side of the circuit board. Kit includes all surface mount components needed, 2 tiny LEDs, circuit board and complete instructions. Please do not attempt this kit if you have never built kits before. Skill level 3+.

**C6465 $5.90 ea.**

### Basic SMD Learn to Solder Kit



Contains 1 small SMD single sided circuit board which is etched (ready for component mounting), and over 50 various SMD components: ICs, resistors, capacitors. There isn't room to mount all the parts, but we give you extra ones in case you ruin them. The circuit is totally nonfunctional, but it is a tremendous way to introduce yourself to this exciting new technology which industry all over the world is adopting. Size of board about 1-1/2" x 3/4".

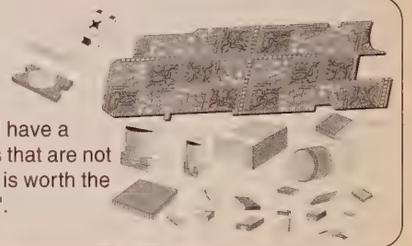
**G3113 $3.00**

### Giant SMD Assortment

Our largest assortment of tiny SMD parts. You'll find prime LEDs, ceramic capacitors, resistors, transistors, diodes, tantalum capacitors, inductors, etc. in every package. Great way to stock up your parts bins at less than 1 1/2¢ a part! Over 1,000 pieces in a 2" x 3" zip close bag! NOTE: Many SMD parts are so tiny that the manufacturer does not mark them, however, every part in this assortment is 100% prime and perfect. Do a little detective work and save over a hundred dollars!

**G7128 $15.00**

### Deluxe SMD Learn to Solder Kit

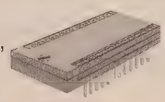


This is similar to our Basic SMD Learn to Solder Kit, but this is much more sophisticated. Kit comes with an actual complex double sided miniature cellular phone PC board (etched and plated-ready for component mounting), and over 150 surface mount parts including ICs, transistors, resistors and capacitors. The circuit is of course, totally nonfunctional and is a tremendous way to sharpen your skills beyond the basic kit. NOTE: this kit contains fine pitch multiple lead SMD ICs and you should have a very fine tip soldering iron and magnifying glass to work on it. Also NOTE: the board will have pads to mount some components that are not in the kit. You may not be able to solder some of the components because of their size, but just the educational value of this kit is worth the price. Great for studying the latest type of technology that is becoming the new standard. Size of board about 2-1/4" x 4-3/4".

**G3114 $7.00**

## Sockets

### 3M Textool Zero Insertion Force Sockets

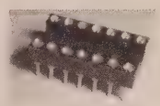


High quality zero insertion force sockets designed for heavy duty use. Great for testing, programming and burn in.

**16 Pin G5547 $3.00 ea.**
**24 Pin G5548 $4.00 ea.**

### Machine Pin IC Sockets

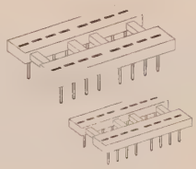
Prime low profile solder terminal sockets with high quality machine pins.



| | | |
|---|---|---|
| **8 Pin** | **G13079** | **4/$1.00** |
| **14 Pin** | **G3913** | **3/$1.25** |
| **16 Pin** | **G3914** | **3/$1.30** |
| **24 Pin*** | **G3915** | **3/$1.75** |
| **24 Pin** | **G3916** | **3/$1.80** |
| **32 Pin** | **G3918** | **3/$2.00** |

***Narrow type**

### IC Sockets



| | | |
|---|---|---|
| 8 Pin | **G1233** | **5/$1.00** |
| 14 Pin | **G1234** | **5/$1.00** |
| 16 Pin | **G1235** | **4/$1.00** |
| 20 Pin | **G391** | **3/$1.00** |
| 22 Pin | **G1237** | **3/$1.00** |
| 24 Pin | **G1238** | **3/$1.00** |
| 28 Pin | **G1239** | **2/$1.00** |
| 32 Pin | **G5339** | **2/$1.00** |

### IC Socket Blowout

Prime low profile IC sockets made by Augat, Burndy, Sealectro, etc. These are brand new perfect with tin plated contacts. Sold by the full tube only (no partial tube sales). NOTE: We show the minimum quantity in each tube- some brands have more- Sorry, no brand selection available.

| | | |
|---|---|---|
| **20** | **25** | **G7374** |
| **24*** | **17** | **G7377** |
| **24** | **17** | **G7378** |
| **28** | **14** | **G7379** |
| **40** | **10** | **G7381** |

*Narrow Type Socket

**YOUR CHOICE**
**$1.50/TUBE**
**(SOLD BY THE TUBE ONLY)**

## Solar Products

### 150watt Photovoltaic Solar Charger Control Unit

These are prime 150watt controller circuit boards designed to keep your 12V lead acid or flooded batteries at full charge without overcharging them. Can be set to 14.3VDC for lead acid batteries, 15.5VDC for flooded batteries or other voltage you desire by use of a potentiometer (included). Controller is very sophisticated but simple to use. Features 7 IC circuit with 3 status LEDs: Green -Solar Panel operating/Battery at full charge, Yellow -battery taking a charge, Red - 15amp fuse to battery is blown. Simply connect solar panel or solar array 17V to 24V to (+) and (-) Bus, connect potentiometer up, and connect your battery or battery array to (+) and (-) Bat terminals. After initial setting of potentiometer the controller automatically maintains your battery (during sunlight). As soon as the battery is fully charged, the yellow LED goes out and the green LED comes on. As the load on the battery depletes its charge, the controller automatically begins charging again. Size about 5" x 7" x 1 7/8". These are prime with moisture proof conformal coating made by Aerovironment Inc. in 1995. New with simple hookup information, but no schematics or data. Part# SBC01000PEB. These are worth many times our price!

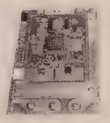
**G12936 $14.95 ea.**

### 150Watt Solar Charger Control Unit - Type 2

This is a slightly smaller version of our very popular G12936 150W solar charger control unit. This model can also handle 150W and is designed for charging 12V lead acid batteries or flooded batteries without overcharging them. Using the potentiometer that we supply, you can set the unit to charge at 14.3VDC for lead acid batteries, 15.5VDC for flooded batteries or other voltage you desire. Sophisticated 7 IC circuit features 3 panel mount LEDs on the underside of the board: Green - Solar Panel operating/Battery at full charge, Yellow - Battery taking a charge, Red - 15amp fuse to battery is blown. To use, connect 17V solar panel or array to the "+" and "-" bus terminals and your battery or battery array to the "+" and "-" output terminals. Controller automatically maintains your battery (during sunlight) and as the load on the battery depletes its charge, the controller automatically begins charging again. Size about 5" x 6" x 2". Brand new prime units made by AeroVironment Inc. in 1994. Comes with simple hookup info, but no schematics or data. Part #01005.

**G13254 $8.95 ea.**

### Solar Peak Power Tracker Board



These were made for photovoltaic solar power applications by AeroVironment Inc. The board features a MC685711E9CF microprocessor and 7 other IC's. It has terminals for -array, + array, - bus, + bus and control. It also has a thermistor attached to a connector block marked "Temp Sensor". Finally there are pads on the board labeled LED1, LED2 and LED3 but they did not install LEDs in these pads. We do not know how the board functions and do not have any other data or hookup info. We do know that they are new and originally one board was bulk packed with each box of 10 of our very popular 150 watt solar charge control boards. You'll need to figure this board out-brand new but sold "as is" no returns. Size 5" x 7".

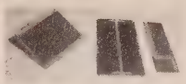
**G13142 $9.95 ea.**

### Mini Glass Beam Solar Panel

Great for making powerful Beam Robots, this lightweight glass cell puts out 3.5VDC open circuit voltage and 15ma short circuit current in sunlight. Size is only 25mm x 53mm. Weighs about 5 grams (.176 oz). Has blocking diode attached to prevent discharge of your battery or capacitor when light is not striking cell (can be bypassed if desired). Has 2 insulated wire leads for hookup.

**G4400 $2.49 ea.**

### Rare Selenium Photocells



Before silicon solar cells were used to convert light into electricity, selenium cells such as these were widely used in photographic light meters, "electric eye" door openers, sensors, etc. We give you 3 different selenium photocells of sizes ranging from .5" x 1.5" up to .9" x 1.7". Great for study, various sensor circuitry or just for collecting. Each puts out .4V at up to several milliamps or more current.

**G4391 Pkg of 3 for $2.00**

### 12V 50ma Solar Panel

Great for charging batteries, powering radios and all types of small electronic devices. This 4 1/8" x 5 3/4" solar panel has silicon solar cells connected in series and mounted under a plastic lens. The entire panel is fully assembled and ready to use. Comes with plug in power cable and reflector panels to increase output current. New and ready to provide years of free solar power.

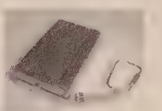
**G4501 $19.95 ea.**

### 3V 6V 9V Multi-Voltage Panel

Same size and construction as above, but this one features 3 power jacks for the voltages 3V, 6V or 9V. Current is 50ma. With power cord.

**G4502 $21.95 ea.**

### Solar Keychain Light



You'll never be caught without a light with the Solar Keychain Light! Great for campers, hikers, autos, remote cabins. Just place this small self contained 2 3/16" x 1 3/8" x 5/8" keychain in the sun to recharge its powerful built in NICAD. In the dark when you need a light, just press the button on the keychain and the focused magnifying lens bulb emits a bright spot of white light.

**G4404 $5.95 ea.**

### Broken Solar Cells

Silicon solar cells can still produce lots of power even when they are in odd shapes from being broken. We are offering a great selection of these broken cells. Most will be able to individually produce enough energy to drive our solar motor or connect several together to make "mini solar panels" capable of charging nicad batteries, or operating a radio, a fan, display, small solar race car, etc. We give you a 3 9/16" x 2 9/16" x 3/8" plastic box full of them (about 20 pieces). If they were not broken, they would be equivalent to a solar cell with an area of around 7" x 7"! We even include instructions on soldering.

**G4496 $3.98**

### Giant Box of Broken Solar Cells

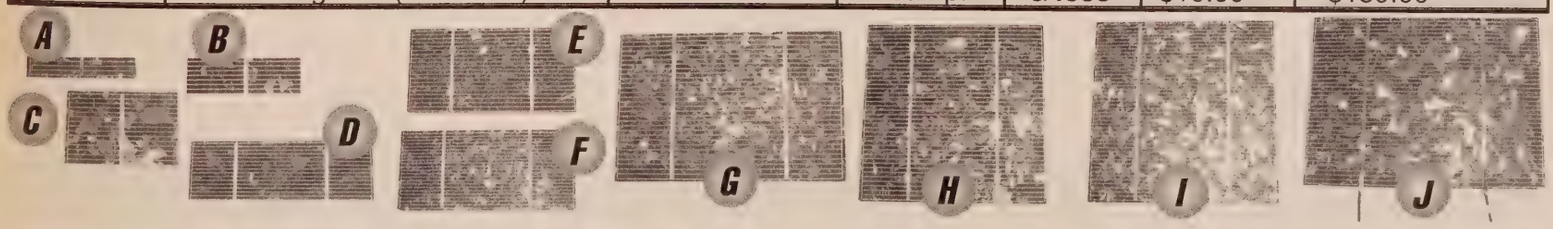
This 3 9/16" x 2 9/16" x 1" box contains around 3 times the amount in the above box. Includes soldering instructions.

**G4497 $9.95**

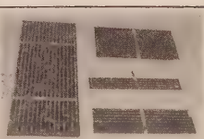
## High Output Polycrystalline Silicon Solar Cells

We have an in depth stock and variety of these high power silicon solar cells ready to convert sunshine into electricity to power all types of electronic projects. These cells are lighter and more fragile than the single crystal silicon solar cells we sell, however if you are going to mount them on a rigid surface such as plastic, balsa wood, glass, etc., they are your best choice for powering solar power model race cars, boats, radios, chargers, robots, etc. All cells will have an open circuit output voltage of between .42V and .52V and will have the approximate short circuit current shown. Cells can be connected in series for greater voltage and in parallel for greater current. Unless otherwise noted all solar cells will need thin, flexible wire leads soldered to them (instructions are included with your purchase). Note: You can cut these cells into smaller pieces using a carbide scribe (available from Sears) if you desire. Each piece will then put out .42 to .52V and the current related to the size of the piece. In this way, you can make higher voltage panels (connect the pieces in series) for use in compact spaces. Of course this will result in monetary savings also.

| Type | Shape | Size | Output | Stock# | each | pkg of 18 |
|---|---|---|---|---|---|---|
| A | Rectangular | 2 1/4" x 7/16" | 150ma. | G4529 | $2.00 | $32.00 |
| B | Rectangular | 2 3/16" x 11/16" | 275ma. | G4530 | $2.49 | $40.00 |
| C | Rectangular | 2 1/4" x 1 1/2" | 550ma. | G4531 | $4.00 | $64.00 |
| D | Rectangular | 4 1/2" x 1 1/2" | 950ma. | G4532 | $5.95 | $96.00 |
| E | Rectangular (slight edge chips) | 4" x 2" | 980ma. | G4533 | $6.50 | $105.00 |
| F | Rectangular | 4 1/2" x 2 1/4" | >1 amp. | G4534 | $7.00 | $112.00 |
| G | Rectangular | 4 1/2" x 3" | 1.1 amp. | G4535 | $7.95 | $128.00 |
| H | Square | 4" x 4" | 1.2amp. | G4536 | $8.49 | $136.00 |
| I | Square | 4 1/2" x 4 1/2" | >1.2amp. | G4537 | $8.95 | $144.00 |
| J | Rectangular* (*has tabs) | 6" x 4 1/2" | >1.3amp. | G4538 | $10.00 | $159.00 |



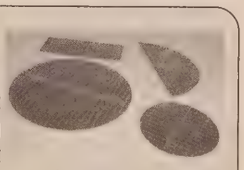

### Amorphous Solar Cell Assortment



Assortment of various size amorphous silicon solar cells. You get 4 cells each capable of delivering high current to power motors etc. from the sun. Each cell no matter how large puts out .5V open circuit voltage, however the size determines the amount of short circuit current. In this assortment it will vary from 150ma for the smallest, up to 950ma for the largest. The smallest cell is 2 1/4" x 7/16" and the largest is 4 1/2" x 1 1/2". May have slight edge chips. Complete with soldering instructions. These would cost over $14 if you purchased them individually.

**G2242 $8.95**

### High Output Single Crystal Silicon Solar Cell Assortment



Assortment of 4 different single crystal solar cells that are easy to solder to. Great for experimenting, powering motors or radios from the sun. Each cell puts out about .5V open circuit voltage but the short circuit current will vary from about 500ma up to over 1amp. Sizes range from 2 1/4" dia up to 3 1/2" dia. Includes rectangular and half moon shapes. These would cost over $25 if purchased individually.

**G2243 $12.95**

# Solar Products

ELECTRONIC GOLDMINE

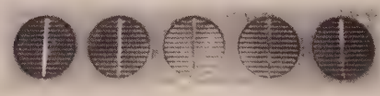
### Giant 20Watt Amorphous Glass Panel with Frame 20VDC 1amp

Our most powerful panel this 1ft x 3 ft glass panel is mounted in a metal frame for ease of roof mounting. Has heavy duty color coded wire leads for power take off. Perfect for charging 12V lead acid batteries, water pumping, emergency power etc. These are used but are in good condition - may have slight scratches on frame. Hurry limited quantities. Open circuit voltage 20VDC. Short circuit current 1 amp.
**G12990 $149.00 ea.**

### Triangular High Output Silicon Solar Cell

High output silicon solar cell develops over 60 ma at 1/2 volt in full sunshine. This small cell will operate our G9330 motor directly. Thousands of uses in robotics, battery chargers, solar powered items, etc. Has solder plating on bottom and solder pad on top to allow you to simply solder your leads to it. Please be careful as they are fragile and if you break them we can't be responsible. Size about 1 1/2" on 2 sides of the triangle x about 1 1/8" base. Connect several in series for higher voltage or connect several in parallel for higher current.
**G9267 ~~$2.49~~ Sale! 1.99 ea. • 10/$18.00**

### 2.5V 500ma Marine Solar Module



We were told these were made for and installed onto Coast Guard boats in Canada. It's a waterproof, sealed in heavy duty plastic, panel that can be bolted down directly on a wooden, fiberglass or other insulated deck or surface. Has 2 countersunk holes for mounting and 2 heavy duty screw terminals on back for power take off. Consists of 5 silicon single crystal high output solar cells in series. Made by Solar Power Corporation Model No. 1002. Worth over $100 each. May have slight scratches on panel. Size: 13 1/2" x 2 15/16" x 5/16" (excluding terminals).
**G4505 $24.95 ea.**

### Glass 4 x 6" Solar Panel with Leads 10VDC 125ma

High quality glass solar panel features 30" long red and black leads for power take off. Solid reliable construction ready to produce power from the Sun. Open circuit voltage: 10VDC; short circuit current: 125ma.
**G2146 $8.95 ea.**

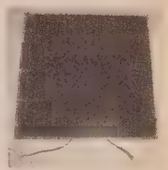
### Glass 6" x 12" Solar Panel 21VDC 160ma

Amorphous silicon resin glass solar panel features output of 21VDC open circuit and 160ma short circuit current. Has two solder tabs for power connections.
**G2145 $24.95 ea.**

### Special Dual Panel

Amorphous glass panel is 12" L x 2 3/16" W x .12" Thick and features 2 separate 9V 70ma panels on one piece of glass. Can be connected in series or parallel or use a glass cutter to make 2 panels. Comes with directions for soldering your wires to it.
**G4560 $9.00 ea.**

### Powerful 10V .150AMP 6" x 6" Solar Panel

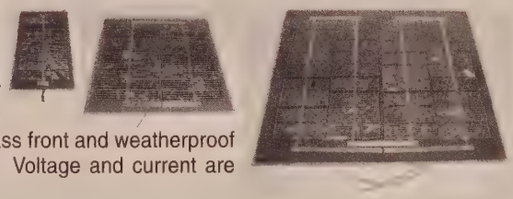


Amorphous silicon resin glass solar panel. This high quality panel comes with flexible color coded leads to connect up to your electronic device, pump or rechargeable battery. Perfect for charging 6V nicad or lead acid batteries (use a diode to prevent discharge at night). Open circuit voltage 10V, short circuit current .150A (over 1.5 watts)!
**G4528 $9.95 ea. • 2/$19.00 • 10/$90.00**

### Solar Life Solar Powered Battery

The deluxe power system from features a flip phone battery back which has a built in high efficiency silicon solar panel and built in solar regulator to harness the free energy from the sun. The battery pack fits the Motorola Micro Tac portable flip phones, however it can also be used to power all sorts of battery powered items if you adapt (or connect) the power terminals to your device. Battery has 5 built in AA size Nicads and comes with an included AC rapid charger which plugs directly into the battery pack to charge it when sunlight isn't available plus it even has a cigarette lighter rapid charger. Brand new in retail blister pack.
**G1776 $19.95 ea.**

### Blue Polycrystalline Silicon Solar Panels



We have 3 different sizes of these high quality solar panels consisting of polycrystalline silicon solar cells connected in series. Each features a weatherproof glass front and weatherproof base surface. All have flexible wire leads for power. Voltage and current are ±10% tolerance.

| Panel Size | VOC | ISC | Stock # | Price |
|---|---|---|---|---|
| 2 11/16" W x 4 1/2"H | 4V | .100AMP | G4481 | $6.95 ea. |
| 5"W x 5"H | 9.6V | .100AMP | G4482 | $9.95 ea. |
| 10 3/8" W x 9 3/8"H | 20V | .240AMP | G4483 | $34.95 ea. |

# Soldering Items

### 25 Watt Pencil Soldering Iron

Comfortable grip pencil type soldering iron. Build kits, repair equipment etc. with this handy solder iron. Features non polarized standard 2 prong plug for 120VAC. Brand new in retail packaging.
**G1984 $3.95 ea.**

### Handy Solder Wick

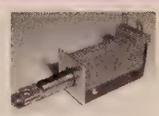
Great for desoldering components from a PC board. Simply lay end of solder wick braid on top of PC solder pad and heat with solder iron. The solder "wicks up" into the braid so that you can easily remove the component. Brand new 5 ft long–in a handy dispenser.
**G1587 $1.29 ea.**

### Soldering Iron Stand

Small bakelite base stand for any pencil type iron. Very handy item to have around.
**G1206 $1.00 ea.**

# Solenoids

### Linear Solenoid



Heavy duty made by Deltrol Controls. These have a tremendous pull and slotted plunger with hole.Overall size: 1 3/4" long x 7/8" diameter. Plunger is 1 7/8" long. Rated 24 VDC.
**G5660 $2.95 ea.**

### Linear Solenoid

Heavy duty solenoid made by Guardian Electric. Tremendous pull heavy duty type compact design. Unknown rating but works from 12VDC up to 36 VDC. Size about 1 3/4" x 7/8". Plunger length 1 3/4" slotted end with hole. Prime.
**G5628 $3.50 ea.**

### Miniature Electronic Firing Mechanism

This special solenoid was made for the miniature print head by Alps that we sell. It is very unique! When the head is pushed into the locked position, it stays in that position until power (we used a 9V battery) is applied. The instant power is applied the firing mechanism springs out with a powerful force (enough to shoot a marble etc.). Great for making miniature combat robots.
**G2093 $3.95 ea.**

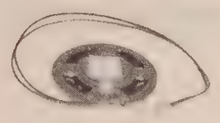
# Speakers

### Paging Horn

High power heavy duty paging horn features 30 watt power handling capacity and good frequency response. Made by Espion. White weatherproof plastic case. Size of horn is about 4 1/2"W x 8"L x 9" D. Perfect for alarm systems or applications that require high power and weatherproof design, brand new-Prime!

**G5669 $19.95 ea.**

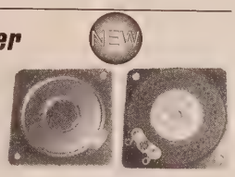
### Mylar Cone Speaker



Small good sound quality mylar cone speaker. Size: 1 7/16" Dia x 3/16" thick. Each has long flexible color coded leads and a peel and stick mount on back.

**G9382 2/$1.00 • 10/$4.00**

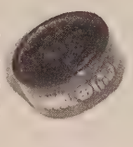
### Flat Full Volume Speaker



Flat 8Ω speaker features a power rating of 400MW. Size only 1.58" square x .15" Thick. Has solder eyelets for connection.

**G13674 2/$1.00 • 100 for $45.00**

### Small Speaker in Case



Small 1 1/8" dia x 1/2" tall black plastic case with speaker element provides the necessary enclosure to allow for good sound quality. Has 2 wire pin leads. Rated 8Ω at .2 watts.

**G8706 $1.00 ea. • 10/$5.00 • 100/$45.00**

### Deep Tone Miniature 8Ω Thin Speaker

For its size, this small mylar cone speaker has a strong magnet and produces a very good sound for its size. Size 1.1" Dia. (excluding ears) x 0.2" Thin. This is the best miniature speaker we have heard! Please note that these speakers have a slightly crushed/deformed cone from the manufacturing process, however this defect is only cosmetic and does not affect the sound.

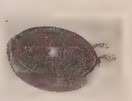
**G13699 $1.49 ea.**

### 5" Super Sub Woofers

(Pincussion Mount) Heavy duty in a very compact size! Features 1 1/4" aluminum voice coil, massive 20 ounce ceramic magnet, 4ohm impedance, 50 watt RMS (75 watt peak) power. Response to 400 HZ vented backplate, air suspension edge and dust screen.

**G3212 $21.95 ea.**

### Miniature Enclosed Speaker



Made by KYOCERA (part # PHPC0047), these are only 13/16" in diameter and produce a very clear sound. Made for cell phone use and they are only 1/8" thick. Impendance is a little over 100Ω.

**G9423 2/$1.00 • 100/$45.00 • 1000/$350.00**

### Delco Auto Speaker

Made for use in many cars, this speaker features a built in 220uF 25V bipolar capacitor to allow a certain frequency range to pass into the speaker (can be bypassed if desired). Features a 2 3/8" ceramic magnet and a 4" x 6" frame. Impedance 4Ω. Brand new with dust cover. Sorry, power rating unknown.

**G1549 $2.00 ea.**

### Miniature Speakers

Popular size mini speakers for new construction or replacement.

| FIG | SIZE | IMP | STOCK | PRICE |
|---|---|---|---|---|
| A | 1 3/4" | 8Ω | G7898 | $1.00 |
| A | 2 1/4" | 4Ω | G802 | $1.00 |
| B | 2 5/8" | 4Ω | G2851 | $1.00 |
| B | 3.5" | 4Ω | G5051 | $1.00 |

### Tiny Swiss Watch Micro Speaker

Very efficient speaker is only .35" Dia. x .21" tall yet it can produce output sound levels up to 90dB. Requires driver circuit. Input resistance is 40Ω and resonant frequency is 2700Hz. Precision made.

**G12774 2/$1.00 • Factory Box of 100/$44.00**

# Stepper Motors

### Applied Motion Products Model 205461 5015-824 Stepper Motor

Features 8.56V, .323 A/Ø, 26.5Ω, 400 S/R. Size about 1 1/2" sq. (excluding ears) x 1 5/16" high. Six lead type. Shaft is 5/8" L x 3/16" dia. Very precision, high quality unit. Sorry, no other data available. New!

**G9550 $4.49 ea.**

### Heavy Duty Airpax Stepper Motor

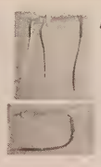
Airpax Model C82902-M2 is 2 11/16" dia. with mounting ears on 3" centers. Features 2.7V operation with ohms/coil .97, step angle 7.5°. Has 5/8" L x 1/4" dia. "D" shaft. Standard four lead type with 2 ft. long flexible leads. Brand new! No other data available.

**G9547 $4.95 ea.**

# Strobes

S

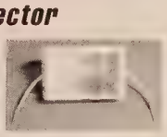
### Straight Xenon Strobe Tubes




Xenon strobe tubes that produce brilliant flashes of white light. Each requires 250V minimum between the anode and cathode and any 4kV trigger coil for firing.

| Stock# | Size | Watts | Fig. | Price |
|---|---|---|---|---|
| G5109 | 1.4" L x .12" D | 10 | A | $1.00 |
| G5110 | 1.3" L x .12" D | 12 | A | $1.25 |

### Brilliant Strobe Tube & Reflector



Small size xenon strobe tube with reflector and lens produces a brilliant light output. Size only 1"L x 5/8"W x 5/8"D. With wire leads for the anode and cathode plus a tab for the trigger input.

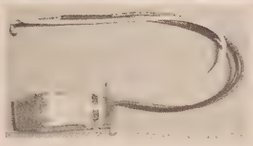
**G8178 $1.00 ea.**

### Horseshoe Xenon Strobe Tubes

These produce more powerful flashes of light than the straight tubes. Each works with any 4kV trigger coil and each requires a minimum of 300V anode to cathode to flash.

| Stock# | Size | Watts | Price |
|---|---|---|---|
| G1034 | 1.25" Tall | 24 | $4.50 |

### Extremely Bright Micro Xenon Tube



This is the most brilliant intense Xenon strobe tube for its size that we have ever seen. It's a 0.8" long tube mounted in a 0.4" x 1" plastic lens with chrome reflector. It features 3 color coded flexible leads and is brand new. Perfect for making wing strobes on small RC flying planes. These are amazing! Requires about 180V anode to cathode and any 4KV trigger coil.

**G4584 $3.00 ea.**

### Chrome Mylar Film

5" x 8" piece of heavy duty highly reflective mylar film for making strobe reflectors. Unique item!

**G1242 $1.00 ea.**

### Super Xenon Strobe Tube Assortment

Prime new xenon strobe tubes in various sizes. Includes straight type and horse shoe type tubes. Great for use in strobe lights, camera flash units, slave strobes, etc. All tubes will work with any trigger coil we sell.

**G1040 Package of 5 / $6.95**

### Micro Strobe Brains

Tiny circuit board features micro size inverter transformer, IC and the smallest 4KV trigger coil that we have ever seen (it's only 5mm square). These are brand new and were made for a camera strobe, however they are not complete. They have various SMD parts on the bottom of the board. The best reason to buy this is to remove the micro size 4KV trigger coil and inverter transformer (if you are making your own micro size strobe). Sorry, no schematic or hookup data on the board or any of its components.

**G4584A $1.00 ea.**

**Factory sealed package of 8 boards /$5.00**

### Xenon Strobe Tube

Approx. 1 3/16"L x 5/32" Dia.

**G7852 $1.00 ea. • 100/$25.00**

**1,000/$220.00 • 10,000/$2,000.00**

### Mini 4kV Trigger Coil

Designed to fire Xenon strobe tubes, these are perfect for any strobe tube we sell. Size only 6mm (Dia.) x 12mm (L). Has 3 leads. Brand new.

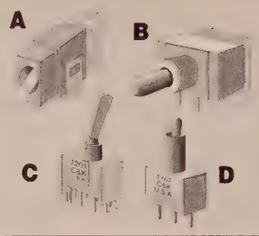
**G9879 $1.00 ea.**

## Toggle Switches

### Miniature Toggle Switches

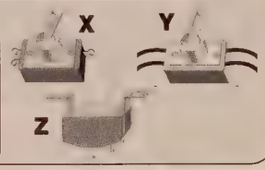
| Stock# | Size (L X H) | Mount | Contacts | Rating | Fig. | Price |
|---|---|---|---|---|---|---|
| G869 | 1/2" x 3/8" | PC | SPDT | ---------- | A | $1.00 |
| G966+ | 1/2" x 3/8" | PC | SPDT | ---------- | A | $1.00 |
| G6010 | 13/16" x 1/2" | PC | 4PDT | 5A @ 125V | B | $1.00 |
| G7055 | 5/8" x 7/16" | PC | DPDT | ---------- | C | $1.00 |
| G7060+ | 5/16" X 3/16" | PC | SPDT | ---------- | D | $1.00 |

+ Spring Return

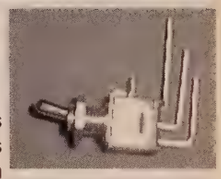



### Standard Size Toggle Switches

| Stock # | Size (L X H) | Contacts | Rating | Fig. | Price |
|---|---|---|---|---|---|
| G5123 | 1" x 9/16" | SPDT | 3A @ 125V | X | $1.25 |
| G3937 | 1 1/8" x 5/8" | DPST | 6A @ 125V | Y | $1.25 |
| G7893 | 1 5/16" x 3/4" | DPST | 15A @ 125V | Z | $1.00 |




### C & K SPDT Micro Size Toggle Switch



Type T101 by C & K features SPDT 3amp 120VAC contacts and a choice of mounting. It can be panel mounted in 5/32" Dia. hole or mounted on a PC board at a right angle. Very high quality precision made with a tiny chrome plated "bat" lever. Perfect for thousands of applications where size is a premium. Brand new-prime. Complete with panel mounting nut.

**G1828 $1.00ea. • 10/$8.90 • 100/$75.00 1000/$680.00 • 10,000/$6500.00**

### Mini Panel Mounting Toggle Switches

Miniature toggle switches with panel mounting nut. Brand new with chrome plated bat handle. 6 amp contact rating.

**SPDT G1485 2/$1.00**
**DPDT G1526 2/$1.50**

### PC Mount SPDT C&K Toggle Switch

Type 7101 toggle switch features SPDT contacts rated 5amp 120VAC. Miniature case right angle mount with chrome "bat lever".

**G2267 2 for $1.00**

## Pushbutton Switches

### Tiny SMD Pushbutton Switch

Type EVQ PPDA25 momentary contact SPST N.O. Swiitch by Panasonic has a tiny white pushbutton and a small metal case. Size about 3.8mm(W) x 6.7 (L) x 2.5mm Thick (including button). Very high quality type with tactile feedback. On tape & reel.

**G1799 4/$1.00 • 100/$22.00 1000/$195.00**

### Handy Foot Switch

Momentary action heavy duty SPST push switch for foot pedals closes its contacts only as long as pressure is on the chrome-plated metal button. Mounts in a 7/16" hole. with mounting hardware and 6" long wire leads.

**G7931 $1.00 ea.**

### Simple Lighted Pushbutton Switch

These N.O. SPST contact momentary pushbutton switches feature a small LED in the center that lights up a bright green. These are new but they do not have a top bezel. Size is .32" square x .46" tall.

**G12987 5/$1.00**

### Heavy Duty Miniature Reset Switch

Miniature reset switch features panel mounting in a .25" hole. Has nice quality black snap on pushbutton. Contacts are normally closed and rated 3Amp at 125VAC. Contacts open as long as button is pressed. Black color. Complete with mounting nut.

**G12850 $1.29 ea.**

### Right Angle Pushbutton Switch

Small right angle PC board mounting momentary action pushbutton switch features SPST contacts that are normally open until the button is pressed. Size about 6mm square with pins on 5mm centers (excluding mounting ears).

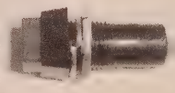
**G4368 10/$1.00 100/$8.00 1000/$75.00**

### Micro Pushbutton Switch

Very smooth, easy to operate micro pushbutton switch features SPST normally open momentary action contacts. Tiny white activation button and 3 solder pins on bottom for PC board mounting (only the 2 outer leads go to the contacts). Size only .33" (L) x .16" (W) x .23" (H) excluding button. Brand new, precision high quality switch!

**G4578 5/$1.00 • 100/$15.00 1000/$120.00 • 10,000/$900.00**

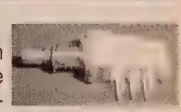
### SPST Push on/off Switch



Easy to use push on/push off switch mounts in a .45" Dia. hole with nut and washer supplied. Even though it panel mounts in a round hole, the top of the switch is square with a .43" square opaque plastic pushbutton. Contacts are rated 3Amp 250VAC. Has solder eyelets. We have 3 colors of tops available–all with black switch bodies.

**Red G12788 2/$1.00 • 100 for $30.00**
**Yellow G12789 2/$1.00 • 100 for $30.00**
**Green G12790 2/$1.00 • 100 for $30.00**

### Push On/Push Off Switch



Right angle PC mount push on/push off swith with DPDT contacts. Made by Alps for PC board use. Size excluding activator button is about 25mm (L) x 8mm (W) x 13mm (H).

**G4205 10/$1.00 • 100/$8.00**

### Tiny Pushbutton Switch

Tiny but reliable PC mounting pushbutton switch by Omron type B3F features SPST contacts and positive snap action. Momentary type normally open. Has 5 leads to allow for correct alignment. Size only 1/4" square x 1/8" Tall (excluding white activation button). Brand new–sold in sealed manufacturer bags only.

**G1412 Bag of 100/$5.00**
**10 Bags (1000 switches)/$40.00**
**100 Bags (10,000 switches)/$365.00**

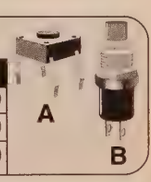
### Wafer Thin Push Button Switches w/ Tactile Feedback

Unique miniature switches only .28" sq x .08" thick feature SPST N.O. momentary contacts. When you push the center button, the contacts close until you release them. These are brand new but 2 of them have been soldered together to form an equivalent SPDT 2 actuator switch. Leads are 1 1/2" long flexible, insulated and color coded. We are selling a bag of 10 of these (20 Switches).

**G2309 $1.00/ Bag**

### Pushbutton Switches

| Stock# | Size (L X H) | Type | Mount | Contacts | Fig. | Price |
|---|---|---|---|---|---|---|
| G2340 | 1/4" x 1/8" | Momentary | PC | SPST N.O. | A | 5/$1.00 |
| G1801A | 3/8"Dia.x 3/8" | Momentary | Panel | SPST N.O. | B | 3/$1.50 |
| G6799 | 5/16"Dia.x5/16" | Momentary | Panel | SPST N.O. | B | 2/$1.00 |




## Lighted Switches

### Deluxe Lighted Toggle Switch

Made for 12V car, boat, etc. applications this deluxe toggle switch features a see-thru red lever that lights up red when 12VDC is applied. Standard panel mounting type with hardware. Has SPST contacts rated 20amp@12V.

**G4004 $1.79 ea.**

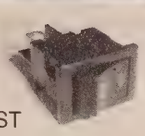
### C&K Stylish Lighted Rocker Switch

Ultra stylish black rocker switch features small window contact in rocker lever which glows. Incredible rating for this size switch: 10 amps @120VAC DPST. Light requires 120VAC. Size only 13/16"L x 5/16"W.

**G8184 $1.00 ea.**

## Rocker Switches

### Compact "Snap In" Rocker Switch

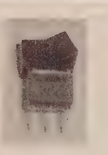


Black rocker switch snaps into a .5" x .73" hole in panel. Contacts are DPST rated 6Amp@250VAC. Made by CTS.
**G12816 99¢ ea.**

### Easy Mount Rocker Switch DPDT 6amp

Black plastic rocker switch mounts in a .70" round hole. Comes complete with nut to secure switch to panel. Overall size of switch is 1.1"L x .79"W x .7" thick (excluding terminals and lever). Has solder terminals and contacts rated 6amp @ 125VAC.
**G2239 $1.00 ea. • 100/$75.00 1000/ $590.00**

### C&K PC Mount Rocker Switch C&K USA-E101



PC mount rocker switch by C&K features SPDT contacts rated 7.5amps at 125VAC. Size about .5" x .5" x .37" (excluding black rocker and solder pins). Brand new High quality.
**G2313 3/$1.00 • 100/$25.00**

### Handy Mount DPDT Square Rocker Switch (Mounts in a round hole)

Unique .90" square DPDT rocker switch features 10amp@125VAC contacts. Has attractive black case with red rocker. Mounts in a .70" diameter hole.
**G2206 $1.35 ea. • 100/$90.00 1000/$610.00**

### Handy Mount round Rocker Switch SPDT Contacts

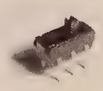
Black positive action rocker switch is designed for panel mounting. It "snaps into" a round .80" dia. hole in your panel- no hardware needed. Features SPDT contacts rated 10amp @ 125VAC or 6amp @ 250VAC. Nice quality attractive switch with solder terminals. Size .8" dia. x .65" (excluding lever button and terminals.
**G2203 $1.00 ea. • 100/$75.00 1000/$590.00**

### C&K 7301 3PDT Switch

Small panel mount rocker switch with black rocker features 3PDT contacts. Size between mounting holes is 1.35".
**G12762 $1.00 ea.**

## Slide Switches

### Tiny DPDT Slide Switch



Great little slide switch features nice positive action. Has 6 leads for secure mounting and DPDT contacts. Size only 8.4 mm (L) x 3.6 mm (H) (excluding lever). Black color-precision made by Noble part #N10036M.
**G1827 5/$1.00 • 100/$15.00**
**1000/$120.00 • 10,000/$900.00**

### Standard Size DPDT Slide Switch

Panel mounting DPDT slide switch with black plastic lever. Space between mounting holes is 1 1/8".
**G1625 5/$1.00 • 100/$18.00 • 1000/$150.00**

### Small SPDT Slide Switch

We made a special purchase of 120,000 of these high quality side switches and we are passing the savings onto you. Size only 5/8"L X 3/16"W including mounting tabs. Nice positive action with black plastic lever. Factory box of 40 switches. Prime-brand new.
**G1371 Factory box of 40/$2.00**
**10 Boxes (400 switches) $16.00**

## Rotary Switches

### 1 Pole 6 Position Rotary Switch

Standard size one pole six position(non-shorting) rotary switch. Features 3/8" threaded bushing for panel mount and 1/2" long 1/4" dia metal "D" shaft for knob.
**G12763 $1.49 ea.**

### 2 Pole 4 Position Rotary Switch

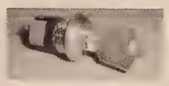
Non shorting 2 pole 4 position rotary switch with standard 3/8" diameter panel mount bushing and panel mount nut. Shaft is for 1/4" diameter knob and is a "D" type.
**G1624 $1.00 ea.**

## Key Lock Switches

### C&K Keylock Rotary Switch

Type A126 rotary keylock switch features 3 pole, 3 position rotary switch operated by a key. Key can be removed in positions 1 and 3 but not in position 2. Comes with panel mounting nut and bezel. Contacts rated 2.5amps @ 120VAC switching or 5 amps continuous carry. Silver plated contacts and terminals (may have slight tarnish on terminals). High quality, precision made. Each comes with hardware and 2 keys. Worth $13 each!
**G8081 $2.49 ea. • 10/$22.00•100/$190.00**

### C&K SPDT Keylock Switch



Very high quality keylock switch made by C&K for Zenith cable boxes, features compact design and quality reliable construction. Size only 1" length excluding terminals, mounts in a 3/4" dia hole. Each brass key is unique (not like cheaper lock switches) so if you buy five locks each one will have its own key which will not operate another lock. Key can only be removed in one position. These are brand new but we are selling them at a blowout price because we do not have panel mounting nut. You provide it and save a fortune!
**G1779 $1.99 ea. • 5 for $6.00**

### C & K Snap In Keylock Switch

Type C & K 121USA P-Series keylock switch mounts in a .80" dia. panel hole. Features 3 positions with .4VA 20V contacts. Brand new with 2 keys.
**G2233 $1.99 ea.**

### Heavy Duty Lockswitch

Heavy chrome plated lockswitch by Chicago Lock Co (type ACE®). Features 3 positions (2 SPST on switch positions and 1 off position). Has cylinder type keys that are difficult to duplicate. Panel mounting type with nut and washer. Size 1 3/4"L X 7/8" Dia. Made for 11/16" Dia. hole.
**G1058 $3.98 ea.**

### C&K 5 Position Rotary Key Lock Switch

Unique panel mounting key lock switch features 1 pole 5 position contacts, 2 keys and panel mount nut. Key can only be removed in 3rd (center) position.
**G12998 $2.49 ea.**

## Reed Switches

### Tiny SMD Reed Switch

Type FR2313 glass reed switch by CP clare feares a .6" L x .09" W x .05" H glass body with 2 tiny SMD terminals. The SPST N.O. contacts close when any magnet is brought near the glass. This switch is more sensitive than most reed switches we have seen.
**G13078 $1.00 ea.**

### World's Smallest Reed Switch

One of the smallest tiny reed switches made. Consists of a 9/16" long glass magnetic operated N.O. contact reed switch in a rigid plastic holder. Contacts of switch close when magnet is brought rear. Great for alarms, robots, etc.
**G1347 2/$1.00**

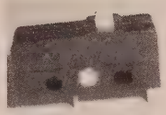
## Snap Action Switches

### Tiny but Powerful Snap Action Micro Switch

Tiny SPDT snap action micro-switch features 5Amp 250VAC contacts. Has tiny activator button and gold plated posts for connections. Size only .5" L x .2" W x .37" H (excluding button). Brand new in sealed Micro Switch bag marked 11SX21-H58.

**G12851 2/$1.00 • 10/$4.00**

### Cherry Snap Action Switch



Small snap action switch by Cherry type E61 features SPST 5 AMP 125VAC-250VAC contacts. Size about 19.75mm(L) x 6.5mm(W) x 9mm(H) excluding small white activator button.

**G4037 2/$1.00 • 100/$40.00 1000/$350.00**

### Small Snap Action SPDT Switch

Small snap action switch by Zippy (type VMN-10) features SPDT contacts rated 10amp @ 125/250 VAC. Size about 1.10"L x .62"W x .38"T. Features 1.10" long metal activation lever. Mounting holes are on a 1" diagonal.

**G2202 2/$1.00 • 100/$45.00 1000/$350.00**

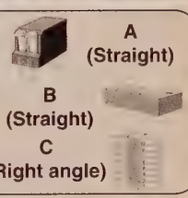
## Dip Switches

### PC Board Mount Precision DIP Switches

Illustrations represent the typical type of mounting (straight or right angle) but the actual switches may vary from the drawings.

| Posit | Fig | Stock | Price |
|---|---|---|---|
| 4 | C | G7732 | 5/$1.00 |
| 5 | B | G5023 | 4/$1.00 |
| 8 | A | G7532 | 2/$1.00 |

| Posit | Fig | Stock | Price |
|---|---|---|---|
| 9 | B | G7458 | 2/$1.00 |
| 10 | B | G3312 | 2/$1.00 |
| 12 | A | G7269 | $1.00 |




## Terminals

### Terminal Lug Strips

Great for use with metal chassis to interconnect wires and components. Each strip has one terminal which mounts the entire strip to the chasis and is grounded. The rest of the solder terminals are insulated from ground.

| Terminals | Size | Stock# | Price |
|---|---|---|---|
| 3 | 1 1/8"L | G9953 | 5/$1.00 |
| 4 | 1 1/2"L | G9954 | 4/$1.00 |
| 6 | 2 1/4"L | G9956 | 3/$1.00 |
| 7 | 2 5/8"L | G9957 | 2/$1.00 |

## Test Equipment

See Additional Meters on Page 65

### Receptacle Tester

Use this pocket size tester to test 100-125VAC receptacles. Detects common wiring problems in standard outlets. Simply plug in and view the light pattern on the tester for the wiring condition. Detects the following conditions/faults: open ground, open neutral, open hot, hot/ground reverse, hot/neutral reverse, and correct (when receptacle is wired correctly). Brand new by GB instruments model GRT-500A in retail package with instructions. UL listed. Size: 3" x 1 1/2" x 1".

**G1494 $3.49 ea.**

### Circuit Tester

Handy circuit tester tests outlets for correct wiring or to test whether or not an outlet is "Hot". Works on 110V or 120V outlets. Has insulated probe, bright neon glow lamp and handy pocket clip. Brand new with complete instructions.

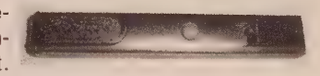
**G2282 99¢ ea.**

### TEST CLIPS with wire

If you work with electronic components, you will definitely recognize these alligator clips with wires. Two alligator clips are connected by a wire so that you can clip on to parts. You get 10 total wires (2 red, 2 black, 2 green, 2 yellow, and 2 white). Each has 2 clips and is 13 1/2" long. These are great for prototyping, repair work, or just to have around. Stock up and save!

**G1498 Package of 10 $2.49**

### Non Contact Voltage Detector



This handy tester detects AC voltage without any contact. Great for finding faults/burned out bulbs in Christmas light strings, locating live outlets, hot wires, etc. Handy high quality pen type instrument comes complete with 2 small watch batteries and built in red LED indicator. Detection range is 70 to 440VAC. Brand new in blister package. Made by GB Instruments. Hurry order today to avoid disappointment!

**G1567 $3.95 ea.**

### Extra-Long Banana Grabber Adapter

These push on to standard banana plugs and convert the banana plug to a 7" Long hook type grabber so you can access those hard to reach places. Available in black only.

**G9623 $2.49 ea. • 2/$4.00**

### 6 Function 14 Range Multimeter

Model GMT-18A by GB tests AC/DC voltage, DC current, Resistance and Batteries. Its compact design makes it the perfect companion away from home or to have as a reliable spare. Thousands of uses including testing receptacles, auto appliances, electronics, lighting fixtures, etc. Technical specs: AC voltage to 700V, DC voltage to 1000V, DC Amps to .250, Resistance to 10MΩ, battery test 1.5V & 9V, Fuse 2A/250V, Decibels -20 – +62dB, Sensitivity 10,000 Ω/V, AC Sensitivity 4,000 Ω/V, operates on one AA (1.5V) battery (included), includes test probes and instructions. Brand new in retail package. UL listed. Size: 4 1/8" x 2 1/2" x 1 1/4".

**G1490 $7.49 ea.**

## Thermal Devices/Thermistors

### Elmwood Thermal Sensor

Part# 3100-300-1 F203. This normally open metal sensor is designed to close contacts when your equipment, motor, etc. gets too HOT! Judging from the part#, we think that temperature is 203°F. As soon as equipment cools down, the sensor opens up again. Hermetically sealed prime unit.

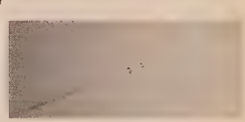
**G3043 $1.00 ea.**

### Heavy Duty Thermocouple Wire

Great for science experiments, heat measurements, etc. This super heavy duty thermocouple wire produces electricity from heat. Simply twist the ends of the 2 dissimiliar metal wires together and a voltage will be produced in relationship to the amount of heat applied. This cable is 16ga. with a copper shield lead and 2 thermocouple leads all inside a purple jacket.

**G3261 $1.00 / ft.**

### Tiny Glass Thermistor



This thermistor is ultrasensitive to temperature changes and is in a tiny glass case (just like a IN4148 diode). Resistance at 75°F is about 10K, however it changes rapidly to lower resistance as temperature rises-just grasp it with your fingers. Prime Semitec DCA8025 Type 103CT-4 by Ishizuka Electronics Corporation of Japan.

**G1929 $1.00 ea. • 200 for $150.00**

# Thermal Devices/Thermistors

### Airpax Thermal Regulator

Tiny thermal breaker closes a set of SPST contacts when temperature rises to 47°C, (117°F). Very small-same size as a 8 pin mini dip IC. Turn on alarms, fans, indicators when temperature exceeds value shown. When temperature drops below rating, the contacts open again.

**G3243 $1.00 ea. • 10/$8.00**

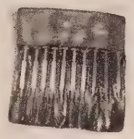
### Thermistors

Small thermistor Type A170. Cool resistance approx. 1.5K ohms. Hot resistance approx. 25 ohms.

**G2005 5/$1.00 • 100/$18.00**

# Tools

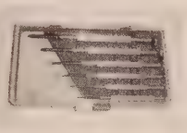
### Searching for a Small Screwdriver?



This set of 10 flathead screwdrivers comes in a pouch with numbered slots to organize and identify each screwdriver. The smallest screwdriver is less than 1mm wide, and the rest incrementally go up to 2mm wide! All ten of the screwdrivers in this precision set are great to have around.

**G9775 $2.49/set**

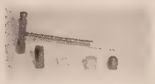
### 6 Piece Precision Screwdriver Set



4 flathead sizes:1mm,1.2mm, 1.8mm, & 2.4mm and 2 slotted (3mm&3.5mm) screwdrivers. Each screwdriver has a hardened and tempered rust-proof blade and a bright plated handle. The entire set is housed in a snap closure type plastic case.

**G9774 $1.29/set**

### Hobbyist/Jewler Hammer



Features interchangable head faces; brass, steel, acrylic mallets, steel ball pein, bullet and chisel tips. Size of hammer is about 7" long x 2 1/2" across. Has 2 ended head. Now you can select the right tip for your application without having 6 different hammers on your workbench.

**G1691 $4.95**

### Magnetic Pick Up Tool

This super telescopic magnet pick up tool contains a powerful rare earth magnet capable of picking up objects up to 5 lbs. The telescopic end extends up to 24" long. Perfect for picking up dropped screws, bolts, nuts, nails, washers, tools, etc. Has clip to attach to shirt pocket. A must for every Tool box!

**G9776 $2.98 ea.**

### High Quality Electronic Type Needle Nose Plier

High quality, chrome-plated needle nose miniature pliers for precision electronic work. Precision made with spring type insulated grips. Handy and precision made in India. Size: 4 3/4" long.

**G5558 $4.95 ea.**

### Razor Sharp Side Cutting Pliers

When you want a nice pair of cutting pliers but don't want to pay $35 to $50, check out these stainless steel 4 1/2" spring return types with insulated grips. They are made in India, but are very good quality. We use them here at our company and we like the quality of these considering their lower cost! Brand New!

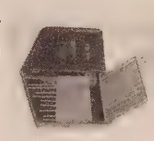
**G2116 $5.95 ea.**

### Hobby Drill / Grinder

Small handheld hobby tool drills, cuts, deburs, grinds, routes etc. Has fully adjustable 1/8" chuck and comes with carrying case, AC adapter, 3 different chuck adapters, 1 tiny drill bit (perfect size for PC board holes), 2 grinding wheels and 1 router tip tool. This compact, easy to use drill comes packed with the accessories shown in convenient reclosable storage case. Size of drill about 4 7/8" L x 1 1/4" dia brand new!

**G1701 $24.95 ea.**

### Set of 20 Mini Drill Bits



Set of 20 tiny drill bits perfect for hobby and PC board use with the above drill (G1701). You get 1 each of all sizes from 61 to 80 packaged in a small metal box. These are made in China so they aren't as good as their U.S. equivalents but they do perform reasonably well and they are indispensible if you are making your own PC board. New!

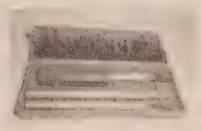
**G1698 $4.95/set**

### Set of 10 Miniature Grinding Stones

Deluxe set of 10 assorted grinding stones for the above drill. You get tiny ones up to large wheels and various grits from coarse to fine. Brand new–very useful for thousands of applications.

**G1697 $5.95/set**

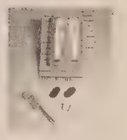
### Universal Hobby Knife Set



Consists of 3 different sizes of hobby knives (small to large) plus 10 assorted replacement blades in all sorts of shapes and sizes. The whole set is packaged in a reclosable plastic case. Brand new in blister package.

**G1696 $5.95**

### Eyeglass Repair Kit



Handy item to have around for repairing eyglasses or small hi-tech electronic devices. Consists of a small reclosable plastic box, 2 tiny screws, 2 slightly longer screws, 2 spacers, and a tiny screwdriver. Blister packed.

**G1663 2/$1.49**

**Card of 12 Individual Kits / $6.00**

### NEED AN EXTRA HAND?

This helping magnifier is like having two extra hands. This unit includes a 2 1/2" magnifying glass and two alligator spring clips to hold objects at any angle to each other leaving both hands free. With this unit, you can glue, solder, repair, and assemble projects with ease! The 6 ball joints are capable of locking at any angle desired. Features nickel-plated fittings and a heavy cast-iron base. Makes a wonderful addition to any workshop!

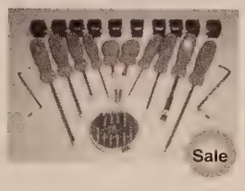
**G9773 $2.98 ea.**

### Giant Helping Hands

This is similar to regular helping hands but it is designed to hold large circuit boards, panels, objects, etc. Just like its smaller brother this one has a weighted base and magnifying glass. Absolutley a must for every hobbyist or technician. Clips hold your work firmly so you can solder or inspect it. Has various clamps and swivel joints so you can customize it to your application. Unit has a maximum height of 11", maximum width of 8", a base size of 4 3/4" x 3 1/4" and a 3 1/2" diameter magnifier size. These are really nice, good quality and very handy.

**G1689 $9.95 ea.**

### Thorsen 22 Piece Screwdriver & Bit Set




Complete set of high quality insulated handle tools with chrome plating and hard vanadium steel tips. Includes 4 different size standard slotted screwdrivers, 5 different size phillips head screwdrivers, a 10 piece set of torx and misc. insert bit set with insert bit handle, 2 offset phillips/slotted screwdrivers and a handy wall mounting holder bracket. These are high quality tools not junk sold by others. Brand new in retail blister package.

**G9963 ~~$18.95~~ ea. Sale! $11.95 ea.**

### 39 Piece Homeowners Tool Kit

Handy tool kit contains a hammer, a 6" long nose pliers, a 6" adjustable wrench, 2 precision jeweler screwdrivers: 1-Phillips, 1-slotted, 20 hex bits with holders (has phillips, slotted tips and Torx® bits, a 1/4" hex drive handle, a utility knife a 1/2"X 10' tape measure, a 3/8" reversible ratchet, 7 3/8" driver sockets: 1/4", 5/16", 3/8", 7/16", 1/2", 9/16" & 5/8", 1 roll of electrical tape, assorted fasteners and a neat heavy duty convenient storage case. These are brand new high quality and so handy for thousands of jobs around your house or office. Buy one for each location!

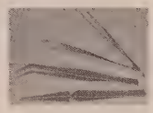
**G1039 ~~$19.95~~ ea. Sale! $14.95 ea.**

### Precision Digital Caliper

With this precision instrument you can make all types of precision measurements from approx. 0-6.080 inches or 0-154.45mm. Very nicely made unit with electronic digital display that reads to 3 decimal places on inches and 2 decimal places on MM. Selectable MM or Inches display. Features locking set screw and stainless steel caliper jaws. Comes complete with battery and protective case. Brand new factory prime with instruction sheet. Simple to use and with the digital LCD display you can't make a measurement mistake!

**G1709 $49.95 ea.**

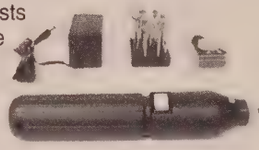
### 4 Piece Tweezers Set



Set of 4 metal tweezers. Very useful and handy for hundreds of hobby applications. Retail blister card of 4 different tweezers each about 4 1/2" L.

**G1699 $2.49/set**

### Portable Rechargeable Multipurpose Tool



Very handy item consists of a hand held portable tool, a charger, 3 different collets, and 31 different tips. The tool has built in rechargeable nicads that can be recharged in only 1 hour. Tool tips included are drill bits, router bits, grinding stones, buffer pads, sanding disk, etc. Brand new sealed package with recloseable plastic storage box. This is a tremendous value that is perfect for thousands of precision hobby applications. UL approved.

**G12777 $29.95 ea.**

### 360° Swivel Table Vice

Heavy duty table vice clamps to any bench, table, desk etc. and can swivel the head up to 360°. Nicely made - has rubber boots over strong metal jaws. Features 3 locking levers, heavy duty rubber pad to protect table and very handy adjustments. Overall sixe of jaws about 3" wide and can open to about 2" apart. About 9 3/4" overall size. Brand new in box.

**G1661 $14.95 ea.**

### Adjustable 5" Wire Stripper

Handy rubberized handle wire stripper is an indispensable item to have when building any electronic project. Fully adjustable to strip various gauges of insulated wire. In retail card package.

**G12940 99¢ ea.**

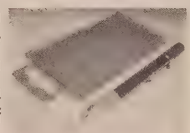
### Standard Adjustable 3x Magnifying Lamp

Great item for all types of hobby work! Features 4" diameter optically ground glass, 3x magnifying lens, a fully adjustable 30" arm extension with the ability of the lamp to tilt in any direction, standard 120VAC operation and uses any 60watt bulb of your choice (not included). Brand new in retail box. White color.

**G1700 $23.95 ea.**

See Additional Lamp on Page 61

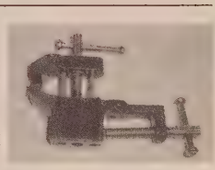
### 21 Piece Mini Drill Set with Pocket Holder



Unique set consists of an aluminum pocket drill plus 20 tiny drill bits. The holder can hold all 20 bits inside it and it also features a collet so that you can attach any of the drill bits to manually make a hole in plastic and thin PC boards. Size of bits are from 61 to 80. Retail packaged.

**G12944 $6.95 ea.**

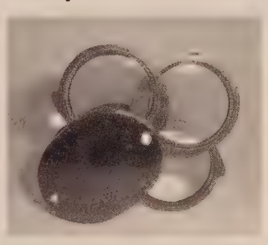
### Baby Bench Vise



The mouth of this vise can accommodate objects up to 7/8" deep (thick). Has a 1" wide jaw. Has an adjustable clamp that can mount on any edge up to 1 1/2" thick. All metal construction. Not the best quality but it works!

**G9779 $2.98 ea.**

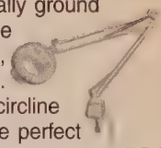
### Tripple Fold Magnifier Loupe



Consists of an oval black plastic loupe case with 3 individual 5X glass magnifier lenses. Can be combined or used individually to give 5X, 10X and 15X magnification. Size about 1 5/8" Dia x 2 1/8" L. Brand new in box.

**G1694 $3.49 ea.**

### Heavy Duty 3X Magnifying Lamp



Features large 5" diameter 3x optically ground glass magnifying lens, fully adjustable 45" extension arm, full tilt capabilities, operation from standard 120VAC. Easy to use mounting base, cool 22" circline fluorescent tube included. This is the perfect lamp for use when working with SMD or other small PC boards. Brand new in retail box. White color.

**G1695 $44.95 ea.**

### 30 Pound Pull Pickup Magnet

Handy item to tie onto a rope and retrieve lost metal objects from a lake or pond. Features heavy duty metal casing with ring to tie rope or line to the 30lb. pull magnet.

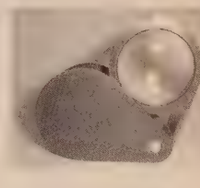
**G1692 $3.95 ea.**

### Special Soldering Helping Hands

This is the most useful of the "helping hands" series for anyone building or repairing electronic kits. It comes with fully adjustable clips for holding your circuit board, a quality magnifying glass, a small soldering iron holder and a sponge in the base. Just provide a soldering iron, wet the sponge and you're ready to go. If you solder, you'll definitely want this! In retail box. Makes a great gift for any hobbyist.

**G12810 $4.98 ea.**

### Giant Loupe



This is probably the largest magnifier loupe we have ever seen. Makes SMD components look huge! Great for all types of hobby or jewelry use. Magnifying lens folds out from black plastic protection casing. Powerful precision made magnifier is 6X power. Overall case size about 2 1/4" dia x 3 1/2". Brand new in box.

**G1693 $3.95 ea.**

## Transformers

### 12VDC Transformer

This is a 12 VAC transformer with 2 diodes and a capacitor already connected to it. The output is 12 VDC at 100 ma. The input is standard 120 VAC.

**G8996 $1.49 ea.**

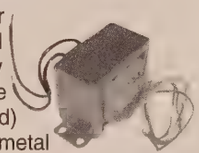
### 12VAC Transformer

Small open frame transformer is perfect for making power supplies or battery chargers. Rated 12VAC 250ma. Standard 120VAC primary. Flexible insulated leads. Size about 1 3/8" sq x 1 1/4" H. Has mtg ears on 2" centers.

**G8535 $1.00 • 10/$5.00 • 100/$45.00**

**(SEND EXTRA SHIPPING FOR 100)**

### Compact Power Transformer



High quality power transformer features 120VAC primary and 2 secondaries. One secondary is 24 VAC at 2amps and the other is 36VAC (center tapped) rated 750mA. Open frame with metal mounting ears and flexible color coded wire leads. Size about 2.35"L (without mounting ears) x 2.26"W x 1.96" Tall. Brand new made by EPEC transformer.

**G12951 $2.98 ea.**

### High Power Heavy Duty 25.2VCT 2AMP Transformer

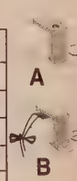
High quality open frame filament transformer by Magnatek features standard 115VAC primary and 25.2VCT at 2AMP secondary. Size about 3" long (excluding mounting tabs) x 2 1/2" high x 2" thick. WIth insulated wire leads. Brand New!

**G1609 $6.95 ea.**

### Power Transformers

Prime power transformers feature flexible color coded leads. All primaries are 120VAC.

| STOCK# | VOLTAGE | CURRENT | FIG. | PRICE |
|---|---|---|---|---|
| G595 | 15V | 250ma | A | $2.50 |
| G596 | 20V | 200ma | B | $2.50 |
| G6071 | 12VCT | 750ma | B | $2.50 |
| G7151 | 12VCT | 900ma | A | $3.00 |
| G6072 | 24V | 65ma | B | $1.00 |

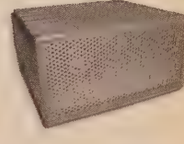


A

B

## Ultrasonic Items

### Unique Ultrasonic Alarm

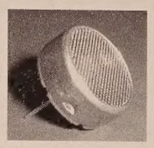


Brand new alarm system works from the doppler shift principle of ultrasonic waves to detect intruders. Features switchable instant or 8 second alarm delay after detection, built in electronic alarm sounds, NC loop activation circuitry for optional hard wired sensors, 25 second exit delay, output for optional external horn, and auto reset. Unit operates from 9V battery (not included). Attractive brown case with gold colored metal front grille. Size only 5 3/8" x 5" x 2 3/4." Brand new! Great for its original application or to experiment with ultrasonic technology!

**G1750 ~~$12.95 ea.~~ SALE! $6.95 ea.**

# Ultrasonic Items

### 24KHZ Ultrasonic Transducers



High output ultrasonic transducer. Brand new metal case/units. Size: 7/8" diameter x 3/8" thick. Manufacturer part # 0D24K2. Has metal posts for connection.

**G951 $1.50 • 100/$125.00 • 1,000/$1000.00**

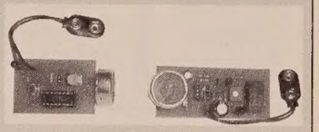
### 40KHz Ultrasonic Transducer

Useful for burglar alarms remote controls, ultrasonic distance measuring, etc. Size about 15/16" diameter.

**G2528 $1.50 ea.**

### Ultrasonic Remote Control Kit

**One of our Most Popular Kits!**



Complete ultrasonic remote control kit consists of a powerful small hand held transmitter kit and a sensitive ultrasonic receiver kit. When you press the transmit button on the transmitter it lights a LED indicator and transmits a 24KHz ultrasonic signal to the receiver kit which can be located up to 50 feet away! At the receiver, a relay closes its contacts and a red LED comes on as long as the transmit button is pressed on the transmitter. Great for robotic applications, remote turn on of lights, alarm systems, etc. Each kit requires one 9 volt battery (not included). Size of transmitter PC board is 2 1/8" x 1 7/16". Size of receiver PC board is 3 1/8" x 1 3/8". Complete with all parts, 2 PC boards and instructions. Skill Level 3.

**C6816 $14.95 ea.**

# Unique Items

### Electronic Surprise Box

We have a tremendous quantity of various items which we have too few to advertise. We have packaged a good assortment containing various semiconductors, resistors, capacitors, hardware, coils, etc. Picture shows representative box, however each box is different.

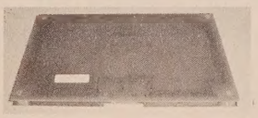
**G2200 $3.25 ea.**

### Super Size Electronic Surprise Box

This is similar to our G2200 surprise box but it contains over twice as many goodies. It also includes larger assemblies or larger products in addition to all the regular smaller items. Tremendous value! Picture shows representative box, however each box is different.

**G9321 $5.95 ea.**

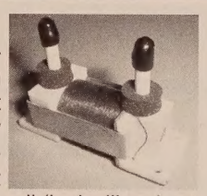
### Large PC Board Ferrite Antenna



This is a 4 1/8" x 2 5/8" circuit board with a coil trace pattern etched into it. On top of the circuit board is a ferrite slab which covers the entire board. There are 4 mounting holes and a metal plate covers one side. The coil terminates in a small 6 pin connector. The entire assembly is precision made and looks like it must have been a high cost item. It has the following part number: LEIV-2V,94V-0, 0002TDII. The entire assembly is only 0.2" thick. Brand new.

**G2009 $5.00 ea.**

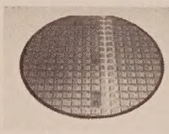
### Heavy Duty Air Solenoid



Air solenoid made for the automotive industry operates on 12VDC. We are not sure what it did, but we do know that it is new and is a great source of a tremendous quantity of magnet wire that can be easily unwound from the coil (looks like about 30 gauge). Size about 2 3/4" L x 1" W.

**G4521 $2.00 ea.**

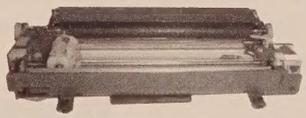
### 4" Silicon IC Wafer



Beautiful 4" processed wafers with IC dies on them. These are fascinating to study under magnifying glass or microscope-you'll see the tiny pads that the factory uses to bond tiny gold wire for external connections and the various intricate maze of patterns that form the IC. Great for science projects, classroom study, IC training classes or as an art object to frame and put on your wall. Hurry each time we have had these they sell out quickly.

**G12962 $6.00 ea.**

### 4 Color Pen Printhead by Alps



Small 6" x 2 1/2" x 1" printhead assembly by Alps, was made to use 4 different miniature pens (not included). This does contain 2 miniature servo motors, a unique solenoid and various nylon gears, levers, pulleys, cables, springs etc. There is no driver circuitry included and since we have no information, we must sell them "AS IS" only. This is a great source for miniature precision parts for a robot. Very well made.

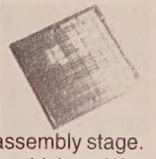
**G2092 $7.95 ea.**

### Automatic TV and Video Game Selector Switch

There's no need to operate a manual switch or change in and out cables with this unique game switch.It automatically shunts the antenna when you turn on the video game and then restores the antenna when you turn off the game. Standard 75Ω input/output. No external power needed. Compatible with most video games and TV/VCR systems. New.

**G12903 $2.49 ea.**

### Large IC Die



This is an actual silicon IC die that would be have been installed in a commercial IC. There was some defect that prevented them from going into the final lead wire bonding assembly stage. Each die is about 10mm sq x .35mm thick and the top surface looks like its gold plated (we don't know for sure). Great for study or to make"electronic jewelry."

**G1922 $1.25 ea.**

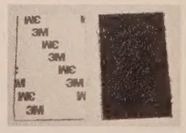
**Carrier Containing 9 die $7.95**

### Blue Hard Drive Media Disk

These are the actual hard drive memory disks removed from hard drives. These unique pieces of technology are also attractive objects of art. They are actually heavier than you would expect. Size about 4" Dia. x 0.2" thick. May have slight scratches or finger prints from handling.

**G2022 $2.00 ea.**

### Handy Hook & Loop Fasteners with Peel & Stick Adhesive



High quality super strong hook & loop fasteners feature quality "3M adhesive peel & stick" surface on one side, with hook & loop surface on the other. Great for mounting one item to another on a semi permanent basis. Large 2" x 1.25" piece sets.

**G2079 3 complete sets / $2.00**

# Voltage Converters

### TDK 5VDC to High Voltage Inverter

Miniature inverter by TDK part # CXA-2090 operates on 3 to 5VDC and will drive most fluorescent tubes. Can also be used as a high voltage generator. Size only 2 1/4" L x 1 1/8" W x 1/2" H. Has 4 pins (2 for input voltage and 2 for output voltage) that are labeled. Sorry, no schematic or other data available. Brand new.

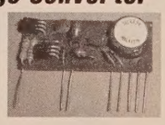
**G12866 $2.49 ea. • 10 for $20.00**
**100 for $180.00**

### DC-DC Converter 5VDC to ±15VDC

This compact DC - DC converter type 5D15.150B by Cal Ex converts 5VDC into + and - 15VDC @ up to 150ma. These are perfect for all types of special op amp circuits where ± 15VDC is needed. Compact size is only 2" square x 3/8" high. Has 5 solder pins for hookup. Brand new.

**G1147 $10.00 ea.**

### Mini 5VDC to -30VDC Voltage Converter



Small 5/8" x 1 5/8" x .25" converter circuit converts input voltage of 3V up to 5VDC into an output voltage of -27V on one output and -30V on the other. Output current is in the 3-4ma range. Has 4 functional leads: common, + input, -27VDC output and -30VDC output. With simple hookup diagram. Brand new.

**G5097 $1.49 ea.**

# ORDERING INFORMATION

## TERMS

**USA** — We accept Visa/MasterCard, Checks and Money Orders for payment of your order. NOTE: Personal checks may be held for clearance before shipping your order.

**CANADA MEXICO** — We accept Visa/MasterCard and Money Orders drawn on U.S. banks in U.S. funds only (personal or company checks not accepted). Please include extra shipping.

**ALL OTHER FOREIGN COUNTRIES** — We are sorry, but due to the greater amount of paperwork, we have a $50.00 (plus shipping) minimum order to Foreign Countries (except Canada and Mexico). Only Money Orders drawn on U.S. banks in U.S. funds or Visa/MasterCard are accepted.

## OPEN ACCOUNT ORDERS

NEW

Schools and Government Agencies: We now will accept open account orders ($100 minimum) from most schools and government agencies. Please note: Our terms are NET 30 and since we usually can't obtain more of the items listed we do not backorder. You will be invoiced for only what we have available that is on your purchase order. Sorry, no verbal purchase orders accepted–you must fax or mail your official purchase order. Call our toll free line 1-800-445-0697 if you have questions.

## C.O.D. AND OPEN ACCOUNT

We do not accept C.O.D. or Open Account orders (except from schools and government agencies). See above.

## SHIPPING

Please include $6.00 shipping to cover up to 2 lbs. to anywhere in the Continental U.S.A. We ship most order by UPS surface, therefore, we must have a street address. If you live outside of the Continental U.S.A., or must have your order shipped to a P.O. box, you must include a minimum of $6.00 shipping. Hawaii, Alaska, Canada and Mexico orders must include at least $6.00 for shipping. If shipment of your order costs more than $6.00, we will usually still send your order (unless amount owed is too great), but we will attach a note telling you how much more you need to remit to us. UPS surface takes between 4 and 8 working days (M-F) to deliver your package after we give it to them. Please note that if we are shipping to a residential address, UPS charges more to make the delivery. If your order is for a large quantity of heavy items such as transformers, speakers, motors, etc., you will need to include more for shipping, as these packages are over 2 lbs. We normally process all orders within 3 days after receipt of the order, however, if you have paid for your order with a personal check, we may wait for our bank to clear your check.

## RUSH SERVICE

If you would like same day shipment, and you have paid for your order with Visa/MasterCard, Money Orders or Cashiers Check, please include $10.00 extra RUSH charge (in addition to the $6.00 shipping charge). We will then process your order within 24 hours and ship it out via UPS blue label rush shipping (up to 2 lbs.) Normally, blue label arrives anywhere in the Continental U.S.A. within 3 working days. On large quantity orders, our rush service costs more than $10.00, so please call for actual costs if this applies.

## RETURNS

Kits may be returned within 30 days only if they have not been opened. Parts may be returned within 30 days if they are in original condition. No adjustments whatsoever can be made after 30 days. **All returned items are subject to a 15% restocking fee.**

## A NOTE ABOUT OUR KITS

Kits cannot be returned for any credit adjustment or refund once they have been opened. We do however, have a repair service. If your kit fails to operate, you may return it to us with a check for $8.00 and we will repair your kit and return it by UPS to you. All requests for repairs must be made within 30 days of your original order date and the $8.00 amount must be included with your returned kit (our actual costs are much higher than $8.00 - we offer this as a service to you). We reserve the right to refuse to repair any kit which our technicians determine to be uneconomical to repair!


SEND ORDERS TO: THE ELECTRONIC GOLDMINE
P.O. BOX 5408
SCOTTSDALE, AZ 85261

CALL PHONE ORDERS IN: (800) 445-0697
24 HR FAX: (480) 661-8259
PLEASE HAVE VISA/MASTERCARD READY

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***NOTE:*** *Specifications, prices and availability of items are subject to change without notice. We cannot be responsible for typographical errors. All sale prices expire when our next catalog is printed unless the item is still listed in the next catalog as being "on sale."*

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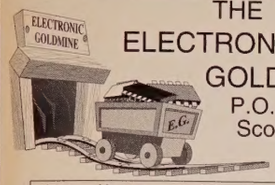


THE ELECTRONIC GOLDMINE
P.O. Box 5408
Scottsdale, AZ
85261

http://www.goldmine-elec.com

**Toll Free Order Line: 1-800 445-0697**
**FAX:.....(480) 661-8259**
**Customer Service Line:.....(480) 451-7454**

# ORDER FORM • CATALOG #241

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STREET _____

CITY _____ STATE/PROVINCE _____

ZIP CODE _____ DAYTIME PHONE (____) _____

| DON'T USE | PAGE # | STOCK/PART NUMBER | DESCRIPTION OF ITEM | QTY. | X UNIT PRICE | = TOTAL PRICE |
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Permit No. 300
Scottsdale, AZ

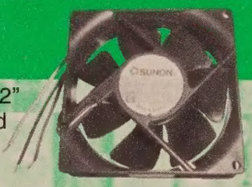
## Extremely Powerful Rare Earth Super Magnet

Extremely powerful super magnet is the odd shape shown. Approximate size 1.2" L x .9" W x .4" Thick. Poles are on the large surface shown (North on one side and South on the other). This one can't be pulled off of a file cabinet – it must be "slid off".
**G13640 $2.00 ea.**

## Tiny Unusual Solenoid

This strange solenoid looks perfect for miniature robot applications. It consists of 2 rubber pads on 2 movable levers. When in the set position, if 9VDC is applied the levers spring out. Small size (about .71" x .67" x .29"). Brand new with color coded leads.
**G13641 $1.00 ea.**

## 92mm x 25mm Sunon KDE1209PTB1-6A 12VDC Fan



Brand new 12VDC fan is 92mm sq. (3 1/2" about). Has long power leads and 1 extra lead for sensor. Rated 12V, 2.9 watt, output 49.5cfm. Brand new – blowout price!
**G13642 $1.49 ea.**

## LTP3245D-S384 Miniature Thermal Printer

Made by Seiko Instruments this small printer is only 76.3mm x 50mm x 20.0mm. It operates form 5VDC and it is designed for 58mm wide thermal paper. The number of dots per line is 384 and the number of characters is 24 per line. These complete heads look new however we don't know for sure and we do not have any data except what we have listed. Check the internet and you'll find more information. Even besides their original applications, these contain a wealth of precision mechanical parts, gears, levers, tiny motor, etc.
**G13643 $8.95 ea.**

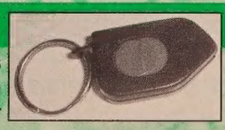
## National LM837N Low Noise Quad Op Amp

Prime low noise Quad Op Amp in a standard 14 pin dip package. Brand new.
**G13645 4 / $1.00**

## BPW33 Silicon Photodiode

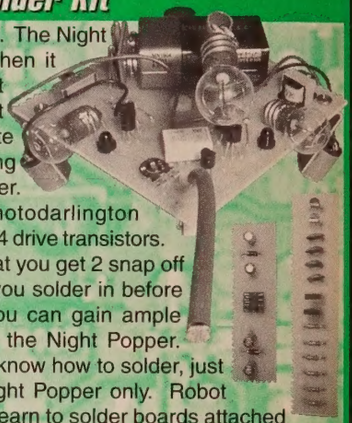
Compact silicon photodiode is almost like a tiny silicon solar cell in a plastic 2 pin case. Responds from 350mm to 1100mm. Has low reverse current (Typ. 20pA). Max sensitivity is at 800mm. Open circuit voltage is 440mV. Short circuit current is 72µA. Size about .16" W x .22" L x .07" Thick. Prime.
**G13644 4 / $1.00 • 100 / $22.00 • 1000 / $200.00**

## Micro Keychain Led Lights



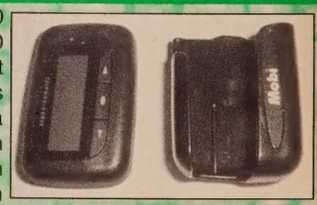
These are great for lighting keyholes, reading maps in the dark, raves, etc. So bright you can see them from quite a distance away. Brand new retail blister package. Has built in long life batteries and slide on and off switch.
**White Light G13690 $1.99 ea.**
**Blue Light G13695 $1.99 ea.**

## Night Popper Learn to Solder Kit



Here's our newest and strangest robot. The Night Popper waits until it gets dark and then it starts its random exploring. While it explores it sets off a brilliant almost firework looking display from it's 3 white lamps and emitts a crackling popping sound from its on board piezo speaker. Features 2 small DC motors, 2 photodarlington transistors, a relay/CDS cell circuit and 4 drive transistors. The special bonus with this robot is that you get 2 snap off PC boards with 21 components that you solder in before building the robot. By doing this, you can gain ample soldering experience before building the Night Popper. Great learning tool and if you already know how to solder, just snap off the boards and build the Night Popper only. Robot itself is about 3 1/8" square. With the learn to solder boards attached the PC board is 4" square. Requires 2 AA batteries and 1 9V battery (not included). With all parts and instructions. Build this and you will amaze, entertain and mystify your cats, dogs and friends! Skill Level 1.
Go to **http://www.goldmine-elec.com/video.htm** for a color video of this kit in action!
**G13696 $17.95 ea.**

## Brand New Sophisticated Flex Format Uniden Pager with 7 Alerts and Vibrate Function



Small 20 message memory and 1,700 character capacity pager type ALP9080 by Uniden operates on 1 AAA battery (not included) and features backlight, 7 alerts plus vibrate and sound. These alpha numeric pagers were for the Spanish market so the menus and words are in Spanish. The built in clock and alarm digits are of course readable and usable as this is the same in English and Spanish. You can set the time and set alarms to go off. We are blowing these out mainly for experimenting and as a source of a high quality miniature pager motor, speaker, LCD backlighted display, crystals, coils etc., however it is brand new complete with belt holster. Size about 3" x 1 7/8" x .78". Color flat black. This is an attractive and new pager, however it probably can't be activated for use in the U.S. pager networks (we don't know but that is why we are blowing these out as the cost on these was probably over $100 each). The frequency is in the 900MHZ Band.
**G13700 $1.99 ea.**

## Super Home Products Surprise Box

Large 12" x 6" x 6" box crammed full of various new electrical electronic items. Each will vary somewhat from the picture but the first one we opened contained mostly retail blister carded items, timer with clock, non contact voltage detector probe, various wall outlets, plugs, night lights, lighting controls, home automation items, etc. Each box will differ and will contain these or other valuable electrical, electronic home items. All items are new.
**G13686 $24.95**

**This is the only catalog you will receive unless you place an order or request another catalog**